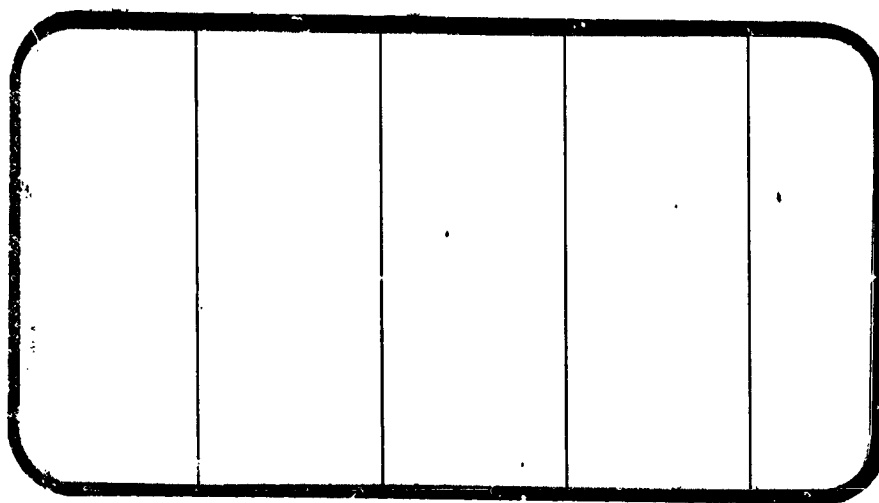




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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134401



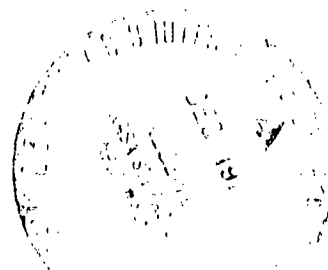
(NASA-CR-134401) AERODYNAMIC RESULTS OF
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0.01-SCALE MODEL (32-015) SPACE SHUTTLE
INTEGRATED VEHICLE IN THE (CHRYSLER
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

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SEPARATION TESTS ON A 0.01-SCALE MODEL
(32-OTS) SPACE SHUTTLE INTEGRATED VEHICLE
IN THE AEDC-VKF-SWTA (IA57)

By

J. J. Daileda
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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for

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National Aeronautics and Space Administration
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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

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SEPARATION TESTS ON A 0.01-SCALE MODEL
(32-OTS) SPACE SHUTTLE INTEGRATED VEHICLE
IN THE AEDC-VKF-SWTA (IA57)

By

J. J. Daileda
Rockwell International Space Division

ABSTRACT

Tested was the RI integrated space shuttle vehicle (configuration 3) in the AEDC-VKF SWTA. Primary test objective was to determine proximity force and moment data for the orbiter/external tank and SRB with and without separation rockets firing for both single and dual booster runs. Data were obtained at points $t = 0$, $t = 1.25$, and $t = 2$ seconds on the nominal SRB separation trajectory.

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(B) CY, CYN, CBL, CN, CLM, CA vs β

(C) CN, CLM, CY, CYN vs α

(D) CY, CYN, CN, CLM vs β

NOMENCLATURE General

<u>SYMBOL</u>	<u>PLCP SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_m)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	$q(NCM)$ $q(PDF)$	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{l}_{REF} \bar{c}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOTATION (Continued)

Body-Axis System

SYMBOL	PLLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_m)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS \ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CTL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS \ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CTL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE

(ADDITIONS TO STANDARD LIST)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
l_b	L	orbiter body length, inches
O/ET		mated orbiter/external tank
P_{t_j}	PT-JET	total pressure of the separation motor jets, psia
P_{TO}		freestream total pressure
SRB		solid rocket booster
--	SRBPØS	SRB position at one of three points in time on the nominal separation trajectory (see Configuration Investigated section for code explanation)
$X_{c.g.}$	XCG	reference center of gravity location
$X_{cp/l}$	XCP/L	longitudinal center of pressure, fraction of body length
X_B, Y_B, Z_B		SRB longitudinal, lateral, and vertical coordinates, inches
X_O, Y_O, Z_O		orbiter longitudinal, lateral, and vertical coordinates, inches
X_T, Y_T, Z_T		ET longitudinal, lateral, and vertical coordinates, inches
ΔX	--	longitudinal separation distance of SRB nose from mated position, positive aft
ΔY	--	lateral separation distance of SRB nose from mated position; positive outboard
ΔZ	--	vertical separation distance of SRB nose from mated position; positive away from orbiter
PCL	--	left SRB nozzle plenum chamber pressure, PSIA

NOMENCLATURE

(ADDITIONS TO STANDARD LIST)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$\Delta\alpha$	--	angular rotation in the pitch plane from mated condition; positive when nose moves away from O/ET
$\Delta\beta$	--	angular rotation in the yaw plane from mated condition; positive when nose moves away from O/ET
$\alpha_{O/ET}$		orbiter/external tank angle of attack
α_{SRB}		solid rocket booster angle of attack
$\beta_{O/ET}$		orbiter/external tank angle of sideslip
β_{SRB}		solid rocket booster sideslip angle
MTL		total mass flow rate through left SRB nozzle, lbm/sec.
	L-SRB	left solid rocket booster position 1, 2, 3, or 0 (see configuration investigated)
	R-SRB	right solid rocket booster position 1, 2, 3, or 0 (see configuration investigated)

INTRODUCTION

A 0.01-scale model Rockwell International integrated Space Shuttle vehicle (Configuration 3; figure 2a) was tested in the Arnold Engineering Development Center-von Karman Gas Dynamics Facility 40-inch Supersonic Wind Tunnel (Tunnel A). Test date was November 20, 1973.

Objective was to determine proximity force and moment data for the orbiter/ET and SRB with and without separation rockets firing for both single and dual booster runs. Data were obtained at points $t=0$, $t=1.25$, and $t=2$ seconds on the nominal SRB separation trajectory.

Data were obtained at Mach 4.5 at Reynolds numbers of 1.08, 1.50, 1.85, 2.23, 4.85, and 6.52 million per foot. Booster separation motor plenum pressures were set at tunnel static (zero thrust), 750, and 1500 psid. Angle of attack and angle of yaw for the Orbiter/ET ranges from -10 to +10 degrees. All angle of attack and angle of yaw runs were made separately.

TEST FACILITY DESCRIPTION

The AEDC-von Karman Facility (VKF) Tunnel A is a continuous, closed-circuit, variable density wind tunnel with an automatically driven, flexible-plate type nozzle and a 40- by 40-inch test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750° R (M=6). Minimum operational pressures range from about one-tenth to one twentieth of the maximum at each Mach number. A description of the tunnel and airflow calibration information may be found in the Test Facilities Handbook.*

*Test Facilities Handbook (Ninth Edition). "von Karman Gas Dynamics Facility, Vol. 3", Arnold Engineering Development Center, July 1971.

CONFIGURATION INVESTIGATED

Test model was a 0.010-scale force model of the Rockwell International Space Shuttle vehicle (Configuration 3, Model 32-OTS).

External tank was rigidly attached to the orbiter. The orbiter was supported in the inverted position on the tunnel primary sector by the AEDC 4.00-Y-36-049 balance and 4.06-Z-050 sting.

The SRBs were supported by brackets attached to a modified sting adapter aft of the 4.06-Z-050 sting. Brackets located the boosters in the three test separation positions.

The right SRB was mounted on AEDC 0.625-inch diameter flow-through balance 4.00-Y-34-065. The left SRB was mounted on a dummy balance built to have the same deflection characteristics as the 4.00-Y-34-065 balance.

Orbiter and external tank were constructed of aluminum and had these components: wing, vertical tail, canopy, orbital maneuvering system (OMS) pods, body flap, simulated main engine nozzles, umbilical fairing, tank-to-orbiter attach structure, and tank protuberances.

External tank was attached to the orbiter using the forward attach strut and the LO₂ and LH₂ feed lines. Feed lines and feed line fairings were relocated inboard 20 inches full-scale from the position used on previous tests using Model 32-OTS (IA13). The new location matches the line drawings for these components. Figures 2b through 2e show the attach structure and tank protuberances.

The SRBs were constructed of steel and included the separation rocket fairing nozzles. High pressure air was piped into both SRBs to simulate

SRB separation motor plumes. Nozzle details are shown in figures 2f and 2g.

Both SRBs were capable of being mounted independently in each of the positions given in the following table.

<u>Position</u>	<u>ΔX (in.)</u>	<u>ΔY (in.)</u>	<u>ΔZ (in.)</u>	<u>$\Delta\alpha$ (deg.)</u>	<u>$\Delta\beta$ (deg.)</u>
1	0	0	0	0	0
2	1.470	2.168	2.594	3.07	4.55
3	4.022	5.465	7.030	7.95	10.40

For these positions, ΔX , ΔY , and ΔZ are displacements of the SRB nose in inches, model scale, from the mated SRB nose position. ΔX is measured positive aft, ΔY is measured positive outboard, and ΔZ is measured positive away from the orbiter. $\Delta\alpha$ and $\Delta\beta$ are defined as: $\Delta\alpha = \alpha_{\text{SRB}} - \alpha_{\text{O/ET}}$, $\Delta\beta = \beta_{\text{SRB}} - \beta_{\text{O/ET}}$, where α_{SRB} , β_{SRB} , $\alpha_{\text{O/ET}}$, $\beta_{\text{O/ET}}$, are obtained using conventional aerodynamic definitions.

On the data, collation sheets and plots, the number and position of the boosters are noted with two digits under the parameter SRBPOS. The first digit refers to the position of the left SRB and the second digit refers to the position of the right SRB. Tested were the following combinations:

<u>SRBPOS</u>	<u>Left SRB</u>	<u>Right SRB</u>
1.100	Position 1	Position 1
2.100	Position 2	Position 1
2.200	Position 2	Position 2
1.200	Position 1	Position 2
3.200	Position 3	Position 2
3.300	Position 3	Position 3
2.300	Position 2	Position 3
0.300	Removed	Position 3
0.200	Removed	Position 2
0.100	Removed	Position 1
0.000	Removed	Removed

Lower surfaces of the elevon and body flap on the left side of the model were instrumented with three pressure taps located as follows:

<u>Tap No.</u>	<u>X (inches from nose)</u>	<u>Y (inches from G)</u>
7	12.26	1.40
8	12.29	2.00
12	13.33	1.00

Three transducers were mounted in the external tank to measure these pressures so that electrical leads instead of tubing would bridge the balance to the sting.

Nomenclature below were used to designate the configurations investigated.

O = B₁₉ C₇ E₂₃ F₅ M₄ N₈ N₂₄ R₅ V₇ W₁₀₇

ET = T₁₀ AT₆ AT₇ AT₁₁ PT₁ PT₂ PT₃ FL₁ FL₂ FR₅

SRB = S₈ N₆₃ N₆₄ PS₄

Model configurations are defined as follows:

<u>Symbol</u>	<u>Component Description</u>	<u>Drawing</u>
	Simulated attach structure (AT _x)	
AT ₆	Left rear orbiter to external tank	VL72-000088D & 89
AT ₇	Right rear orbiter to external tank	VL72-000088D & 89
AT ₁₁	Front orbiter to external tank	VL72-000088D & 89
B ₁₉	Body	VL70-00139B
C ₇	Canopy	VL70-00139B
E ₂₃	Elevons	VL70-00139B
F ₅	Body Flap	VL70-00139B
	Feedlines (from external tank to orbiter)	
FL ₁	LO ₂ feedlines	VL78-000050
FL ₂	LH ₂ feedline	VL78-000050
FR ₅	Umbilical door fairing	VL78-000050
M ₄	Orbital maneuvering system	VL70-00139B
N ₈	OMS nozzles	VL70-000140A
N ₂₄	Orbiter SSME nozzles	VL70-000140A
N ₆₃	Aft SRB separation rocket nozzle block	VL72-000088 & VL77-000036

<u>Symbol</u>	<u>Component Description</u>	<u>Drawing</u>
N ₆₄	Forward SRB separation rocket nozzle block	VL72-000088 & VL77-000036
PS ₄	Separation rocket fairing	VL72-000088 & VL77-000036
	External tank protuberances (PT _x , FL _x , FR _x)	
PT ₁	LO ₂ vent line fairing	VL78-000031A
PT ₂	LO ₂ feed line	VL78-000031A
PT ₃	LH ₂ vent line	VL78-000031A
R ₅	Rudder	VL70-000140A
S ₈	Boosters (solid rocket)	VL72-000088 & VL77-000036
T ₁₀	External Tank	VL78-00041B
V ₇	Vertical Tail	VL70-000140A
W ₁₀₇	Wing	VL70-000140A

Complete dimensional data for the components are given in Table III.

All control surfaces were at their nominal positions during the test; i.e., no elevon, aileron, body flap, or rudder deflections. The umbilical fairing beneath the orbiter was in place for the test.

DATA REDUCTION

Standard AFDC data reduction methods were used to compute six-component aerodynamic force and moment coefficients for the orbiter/external tank and four (C_N , C_m , C_y , C_n) aerodynamic force and moment coefficients for the right SRB. The following reference dimensions were applied:

Symbol	Description	Value (Model Scale)		Value (Full Scale)	
		Orbiter/ET Data	SRB Data	Orbiter/ET Data	SRB Data
S	reference area, ft ²	0.269	0.269	2690.0	2690.0
b	reference span, in.	12.903	12.903	1290.3	1290.3
\bar{c}	reference chord, in.	12.903	12.903	1290.3	1290.3
ℓ_b	reference body length, used for X_{cp}/ℓ , in.	19.703	17.410	1970.3	1741.0
X_{MRP}	longitudinal location of moment reference point, inches from model nose (station, inches)	7.430 (10.520 X_T)	9.670 (11.670 X_B)	743.0 (1052.0 X_T)	967.0 (1167.0 X_B)
Y_{MRP}	lateral location of moment reference point, station, inches	0.0 Y_T	0.0 Y_B	0.0 Y_T	0.0 Y_B
Z_{MRP}	vertical location of moment reference point, distance above centerline, inches	0.470 (from ET Q_L)	0.00 (from SRB Q_L)	47.0 (from ET Q_L)	0.0 (from SRB Q_L)

Figure 2a shows the MRP locations.

Orbiter base and balance cavity pressures were recorded but were not used to apply any corrections. Three body flap pressures were also recorded. Pressure coefficients are in the appendix.

TEST : IA57

TABLE I

DATE : Nov. 20, 1973

TEST CONDITIONS

[illegible]

AEDC

Balances Used: (1) 4.00-4-36-049 (2) 4.00-4-34.065

	CAPACITY:		ACCURACY:	COEFFICIENT TOLERANCE:
	(1)	(2)		
NF	200	125	$\frac{1}{2}\%$ of Full Scale	
SF	200	125		
AF	50	*		
PM	510	451		
RM	100	*		
YM	310	451		

* 4-component balance, no AF or RM

COMMENTS: Balance (1) mounted in orbiter to record O/ET forces. Balance (2) mounted in right SRB.

TABLE II. Continued

TEST: AEDC VR 422 (IAS7)													DATE: 11/29/73												
DATA SET / RUN NUMBER COLLATION SUMMARY																									
DATA SET IDENTIFIER	CONFIGURATION	SCMD.		PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS														
		α	β	L-STR-50	P10	P11	RN/L																		
RTLO19	Φ /ET + RIGHT SRB	A	0	0	2	29	150	1.76			4.5														
20	Φ Pos 2.	0	B	0	2		750				6.4														
21		A	0	0	2		1500				6.3														
22		0	B	0	2		1500				6.5														
23	Φ /ET + RIGHT SRB	A	0	0	3	23.5	1500	1.4			6.6														
24	Φ Pos 3.	0	B	0	3	23.5	1500	1.4			8.4														
25		A	0	0	3	29	0	1.76			3.3														
26		0	B	0	3		0				7.7														
27		A	0	0	3		750				7.8														
28		0	B	0	3		750				8.0														
29		A	0	0	3		1500				7.9														
30		0	B	0	3		1500				3.1														
31	Φ /ET + BOTH SRB	A	0	1	1	17	1500	1.01			3.2														
32	Φ Pos 1	A	0	1	1	23.5	1500	1.4			1.5														
33		0	B	1	1	23.5	1500	1.4			1.4														
34		A	0	1	1	29	0	1.76			1.3														
35		0	B	1	1	29	0	1.76			5														
											6														
IGN	TEL	131	18CYN	25CCL	314TL	37	43	49	55	59	64	75													
6N	6CL	6SY	6SYN	6SBL	6CA	6A	6A	6A	6A	6A	6A	6A													
COEFFICIENTS													SCHEDULES												
OR													SCHEDULES												

TABLE II. Continued

TABLE II. Continued

TEST: AEDC VA412 (IAS7)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 11/29/73

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES							NO. OF RUNS	MACH NUMBERS
		A	B	L-50	R-50	P/D	P/T	RN/L				
RL 336	Φ/ET + BOTH SRB	A	O			1	1	29	750	1.76		4.5
37	Q Pos. 1	O	B			1	1	T	750	T		10
38		A	O			1	1		1500			7
39		O	B			1	1	V	1500	V		9
40		A	O			1	1	110	0	6.75		8
41		O	B			1	1	110	0	6.75		3
42	Φ/ET + BOTH SRB	A	O			2	2	17	1500	1.01		4
43	Q Pos. 2	A	O			2	2	23.5	1500	1.4		35
44		O	B			2	2	23.5	1500	1.4		34
45		A	O			2	2	29	0	1.76		33
46		O	B			2	2	T	0	T		31
47		A	O			2	2		750			32
48		O	B			2	2		750			30
49		A	O			2	2		1500			29
50		O	B			2	2	V	1500	V		26
51		A	O			2	2	35	1500	2.08		25
52		O	B			2	2	35	1500	2.08		23
												24

COEFFICIENTS											
CN	CL	CM	CS	CD	CE	CF	CG	CH	CI	CJ	CK
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48

a or b

SCHEDULES

TABLE II. Continued

TEST: AEDC VA 422 (EAS1)										DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 11/29/73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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TABLE II. Continued

[illegible]

TABLE II. Continued

[illegible]

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₆

GENERAL DESCRIPTION: Right rear, Orbiter to External Tank

MODEL SCALE: 0.010

DRAWING NO.: VL72-000088B + VL72-000089 NOTE: Use first drawing for location and second drawing for detail of struts

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
First Strut		
Diameter In. (Approx.)	<u>1</u>	<u>0.010</u>
Fwd. Location, In. (Attach to Orbiter)		
X_o	<u>1307</u>	<u>13.07</u>
X_s	<u>2058</u>	<u>20.58</u>
App Approximate Aft Location, In. (Attach to Orbiter)		
X_o	<u>1107</u>	<u>11.07</u>
X_s	<u>1858</u>	<u>18.58</u>
(NOTE: This strut is the mirror image of Strut AT ₇)		
Second Strut		
Diameter, In. (Approx.)	<u>1</u>	<u>0.010</u>
Location, In.		
X_o	<u>1307</u>	<u>13.07</u>
X_s	<u>2058</u>	<u>20.58</u>
(NOTE: This is a cross-brace strut)		

TABLE III. Continued

MODEL COMPONENT: ATTACH STRUCTURE - AT₇GENERAL DESCRIPTION: Left rear, Orbiter to External TankMODEL SCALE: 0.010DRAWING NO.: VL72-000088B + VL72-000089 NOTE: Use first drawing for location and second drawing for detail of struts

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
FORWARD ATTACH POINTS		
Orbiter to Tank		
Number of Struts	<u>1</u>	<u>1</u>
Diameter - In. (Approx.)	<u>1</u>	<u>0.010</u>
Location - In.		
X_O	<u>1307</u>	<u>13.07</u>
X_T	<u>2058</u>	<u>20.58</u>
Orbiter to SRB		
Number of Struts	<u> </u>	<u> </u>
Diameter - In.	<u> </u>	<u> </u>
Location - In.		
X_O	<u> </u>	<u> </u>
X_T	<u> </u>	<u> </u>
Tank to SRB		
Number of Struts	<u> </u>	<u> </u>
Diameter - In.	<u> </u>	<u> </u>
Location - In.		
X_T	<u> </u>	<u> </u>
X_S	<u> </u>	<u> </u>
AFT ATTACH POINTS		
Orbiter to Tank		
Number of Struts	<u>1</u>	<u>1</u>
Diameter - In. (Approx.)	<u>1</u>	<u>0.010</u>
Location - In. (Approx.)		
X_O	<u>1107</u>	<u>11.07</u>
X_T	<u>1858</u>	<u>18.58</u>
Orbiter to SRB		
Number of Struts	<u> </u>	<u> </u>
Diameter - In.	<u> </u>	<u> </u>
Location - In.		
X_O	<u> </u>	<u> </u>
X_S	<u> </u>	<u> </u>
Tank to SRB		
Number of Struts	<u> </u>	<u> </u>
Diameter - In.	<u> </u>	<u> </u>
Location - In.		
X_T	<u> </u>	<u> </u>
X_S	<u> </u>	<u> </u>

TABLE III. Continued

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₁GENERAL DESCRIPTION: Front, Orbiter to External Tank

MODEL SCALE: _____

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Number of Struts	<u>2</u>	<u>2</u>
Width of each strut	<u>12-1/2</u>	<u>0.125</u>
Length of each strut	<u>25</u>	<u>0.250</u>
Location:		
x_o	<u>391</u>	<u>3.91</u>
x_T	<u>1132.0</u>	<u>11.32</u>

TABLE III. Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B₁₉

GENERAL DESCRIPTION: Fuselage, Configuration 3, per Rockwell Lines

Drawing VL70-000139B

NOTE: Identical to B17 except forebody

MODEL SCALE: .010

DRAWING NUMBER: VL70-000139B

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>1290.3</u>	<u>12.903</u>
Max. Width - In.	<u>267.6</u>	<u>2.676</u>
Max. Depth - In.	<u>244.5</u>	<u>2.445</u>
Fineness Ratio	<u>4.82175</u>	<u>4.82175</u>
Area - Ft ²		
Max. Cross-Sectional	<u>386.67</u>	<u>0.03867</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. Continued

MODEL COMPONENT: CANOPY - C₇GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 433$ to $X_0 = 670$) in. FS	<u>237</u>	<u>2.370</u>
Max. Width	<u> </u>	<u> </u>
Max. Depth ($Z_0 =$ to $Z_0 = 501$) -- In. FS	<u> </u>	<u> </u>
Finess Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Netted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

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TABLE III. Continued

MODEL COMPONENT: ELEVON - E₂₃

GENERAL DESCRIPTION: Configuration 3 per W107 Rockwell Lines Drawing

VL70-000139B data for (1) of (2) sides

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139B

DIMENSIONS:

	FULL SCALE	MODEL SCALE
Area - ft ²	205.52	0.02055
Span (equivalent) - in.	353.34	3.533
Inb'd equivalent chord	114.78	1.148
Outb'd equivalent chord	55.00	0.550
Ratio movable surface chord/total surface chord		
At inb'd equiv. chord	0.208	0.208
At outb'd equiv. chord	0.400	0.400
Sweep-back angles, degrees		
Leading edge	0.00	0.00
Trailing Edge	- 10.24	- 10.24
Hingeline	0.00	0.00
Area Moment (Normal to Hingeline) - ft ³ (Product of Area Moment)	1518.07	0.001518

TABLE III. Continued.

MODEL COMPONENT: BODY FLAP - F₅GENERAL DESCRIPTION: Body flap for fuselage B₁₉

MODEL SCALE: 0.015

DRAWING NUMBER: VL70-000139

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>84.70</u>	<u>0.8470</u>
Max. Width - In.	<u>267.6</u>	<u>2.676</u>
Max. Depth - In.	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area - ft ²		
Max. cross-sectional	<u>142.5195</u>	<u>0.01425</u>
Wetted	<u> </u>	<u> </u>
Base	<u>38.0958</u>	<u>0.00380958</u>

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TABLE III. Continued

MODEL COMPONENT: FEEDLINE FL_1

GENERAL DESCRIPTION: LOX feedline between EF and orbiter.

MODEL SCALE: 0.010

DRAWING NO.: V678-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Centerline at X_T	<u>2063.5</u>	<u>20.635</u>
Z_T	<u>+ 70.0</u>	<u>+ 0.70</u>
X_O	<u>1440.6</u>	<u>14.406</u>
Y_O	<u>+ 70</u>	<u>+ 0.70</u>
Diameter	<u>18.5</u>	<u>0.185</u>

TABLE III. Continued

MODEL COMPONENT: FEEDLINE - FL₂

GENERAL DESCRIPTION: LH₂ feedline between ET and Orbiter.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Centerline at: X_T	<u>2063.5</u>	<u>20.635</u>
Y_T	<u>- 70.0</u>	<u>-0.700</u>
X_O	<u>1330.5</u>	<u>13.305</u>
Y_O	<u>- 70.0</u>	<u>- 0.700</u>
Diameter	<u>18.5</u>	<u>0.185</u>

TABLE III. Continued

MODEL COMPONENT: ORBITER UMBILICAL FAIRING - FR₅

GENERAL DESCRIPTION: Fairing around orbiter umbilical assembly on orbiter lower surface rear fuselage trailing edge.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000350

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height (from orbiter surface, In.		
Leading edge	5.0	0.050
Trailing edge	23.0	0.230
Maximum	26.0	0.260
Length, In.	154.0	1.540
Max. width, In.	235.0	2.350

TABLE III. Continued

MODEL COMPONENT: OMS Pod - M₄

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

NOTE: M₄ identical to M₃ except intersection to fuselage.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>346.0</u>	<u>3.460</u>
Max. Width - In.	<u>108.0</u>	<u>1.080</u>
Max. Depth - In.	<u>113.0</u>	<u>1.130</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. Continued

MODEL COMPONENT: NOZZLE - N2GENERAL DESCRIPTION: Basic CTS Nozzle of Configuration 2A per Rockwell LinearVL70-008306 and VL70-000039"B". Intersection of nozzle exit plane and
nozzle centerline at $X_0 = 1570.75$, $Y_0 = 159.25$, $Z_0 = 507.25$ MODEL SCALE = 0.010DRAWING NO. VL70-008306, VL70-000039"B", SS-A00092

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Yach No. _____		
Length ~ in. _____		
Gimbal Point to Exit Plane _____	_____	_____
Throat to Exit Plane _____	_____	_____
Diameter ~ in. _____		
Exit _____	<u>50.00</u>	<u>0.500</u>
Throat _____	<u>N/A</u>	<u>N/A</u>
Inlet _____	<u>28.00</u>	<u>0.280</u>
Area ~ ft ² ./Nozzle _____		
Exit _____	<u>13.635</u>	<u>0.00136</u>
Throat _____	_____	_____
Gimbal Point (station) ~ in. _____		
X _____	<u>1518.0</u>	<u>15.180</u>
Y _____	<u>±88.0</u>	<u>0.880</u>
Z _____	<u>492.0</u>	<u>4.920</u>
Null Position ~ deg. _____		
Pitch _____	<u>15°49'</u>	<u>15°49'</u>
Yaw (Outb'd) _____	<u>±12°17'</u>	<u>±12°17'</u>

TABLE III. Continued

MODEL COMPONENT: ME3 NOZZLES - 1124GENERAL DESCRIPTION: Configuration 3A MFMODEL SCALE 0.010DRAWING NO. VL7C-000140A, VL70-005030A

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in. _____		
Gimbal Point to Exit Plane _____		
Throat to Exit Plane _____		
Diameter ~ in. _____		
Exit _____	<u>91.000</u>	<u>0.910</u>
Throat _____		
Inlet _____		
Area ~ ft ² . / Nozzle _____		
Exit _____	<u>45.16585</u>	<u>0.00452</u>
Throat _____		
Gimbal Point (station) ~ in. _____		
Upper Nozzle		
X _____	<u>1445</u>	<u>14.450</u>
Y _____	<u>0</u>	<u>0</u>
Z _____	<u>113</u>	<u>1.130</u>
Lower Nozzles		
X _____	<u>1468.16996</u>	<u>14.68170</u>
Y _____	<u>53.00000</u>	<u>0.530</u>
Z _____	<u>342.63988</u>	<u>3.42640</u>
Null Position ~ deg. _____		
Upper Nozzle		
Pitch _____	<u>16°</u>	<u>16°</u>
Yaw _____	<u>0°</u>	<u>0°</u>
Lower Nozzles		
Pitch _____	<u>10°</u>	<u>10°</u>
Yaw (outb'd) _____	<u>3.5°</u>	<u>3.5°</u>

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TABLE III. Continued

MODEL COMPONENT: SRB AFT SEPARATION NOZZLE BLOCK - N63GENERAL DESCRIPTION: Aft separation nozzles for configuration 3 solid
rocket booster.

SCALE MODEL: 0.010

MODEL DRAWING: SS-A01184

DIMENSIONS:

FULL SCALEMODEL SCALE

Diameter - In.

Exit

9.450.0945

Throat

6.810.0681

Inlet

6.810.0681Area - ft²

Exit

0.48710.00004871

Throat

0.25290.00002529

Design Exit Mach No.

-2.15

No. of Nozzles

4Center of rotation of thrust centerline X_s185018.50Nozzles mounted on SRB aft skirt, canted 20° aft,
away from O/ET

TABLE III. Continued

MODEL COMPONENT: SRB FORWARD SEPARATION NOZZLE BLOCK - N64GENERAL DESCRIPTION: Separation nozzles for configuration 3 solid rocket booster.

MODEL SCALE: 0.010

Model Drawing No. SS-A01184

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Diameter - In.		
Exit	<u>9.45</u>	<u>0.0945</u>
Throat	<u>6.81</u>	<u>0.0681</u>
Inlet	<u>6.81</u>	<u>0.0681</u>
Area - Ft ² /Nozzle		
Exit	<u>0.4871</u>	<u>0.00004871</u>
Throat	<u>0.2529</u>	<u>0.00002529</u>
Design Exit Mach No.	<u>2.15</u>	<u>2.15</u>
No. of Nozzles	<u>4 (in 2 blocks)</u>	
Center of rotation of thrust centerline	<u>450</u>	<u>4.50</u>
Nozzles canted 20 deg. forward, away from O/ET		

TABLE III. Continued

MODEL COMPONENT: SEPARATION ROCKET NOZZLE FAIRING - PS₄

GENERAL DESCRIPTION: Fairing enclosing 4 aft separation rocket nozzles located on SRB base shroud.

MODEL SCALE: 0.010

DRAWING NO.: VL77-000036

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge station, In. X_B	1724.5	17.245
Trailing edge station, In. X_B	1852.0	18.520
Max. Width, In.	30.0	0.300
Max. Height, In.	20.0	0.200

TABLE III. Continued

MODEL COMPONENT: ET PROTUBERANCE - PT_1

GENERAL DESCRIPTION: LOX vent line fairing on Tank (T_{12}) Nose

MODEL SCALE: 0.010

DRAWING: VL78-000031A

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X_T	<u>321.00</u>	<u>3.210</u>
	Y_T	<u>0.0</u>	<u>0.</u>
Trailing edge at:	X_T	<u>947.00</u>	<u>9.470</u>
	Y_T	<u>470.0</u>	<u>4.700</u>
Centerline of vent line radially located at			
Height		<u> </u>	<u> </u>
Width		<u> </u>	<u> </u>

TABLE III. Continued

MODEL COMPONENT: ET PROTUBERANCE - PT₂

GENERAL DESCRIPTION: LOX feedlines on Vehicle 4 tank secured to tank by brackets with 30-inch spacing (total of 22 brackets)

MODEL SCALE: 0.010

DRAWING NO.: VL78-00003LA

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at: X_T	<u>947.00</u>	<u>9.470</u>
Y_T	<u>- 70.00</u>	<u>- 0.700</u>
Trailing edge at: X_T	<u>1330.00</u>	<u>13.300</u>
Y_T	<u>- 70.00</u>	<u>- 0.700</u>
Bracket spacing from $X_T = 997$	<u>50.00</u>	<u>0.500</u>
Centerline of LOX feedline located radially at ϕ	<u>23.5°</u>	<u>23.5°</u>

TABLE III. Continued

MODEL COMPONENT: ET PROTUBERANCE - PT₃

GENERAL DESCRIPTION: LH₂ ventline on Vehicle 4 tank secured to tank by
brackets with 30-inch spacing (total of 22 brackets)

MODEL SCALE: 0.010

DRAWING NO.: VL78-000031A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at: X _T	<u>947.00</u>	<u>9.470</u>
Y _T	<u>- 70.00</u>	<u>-0.700</u>
Trailing edge at: X _T	<u>1330.00</u>	<u>13.300</u>
Y _T	<u>- 70.00</u>	<u>- 0.700</u>
Bracket spacing from X _T = 997	<u>50.00</u>	<u>0.500</u>
Centerline of LH ₂ feedline radially located at $\phi =$	<u></u>	<u>- 34.5°</u>

TABLE III. Continued

MODEL COMPONENT: RUDDER - R5GENERAL DESCRIPTION: 2A, 3 and 3A Configuration per Rockwell LinesVI70-000095Model Scale = 0.010DRAWING NUMBER:VI70-000095DIMENSIONS:FULL-SCALEMODEL SCALEArea - FT²106.380.0106

Span (equivalent) - IN.

201.02.010

Inb'd equivalent chord

91.5850.916

Outb'd equivalent chord

50.8330.508Ratio movable surface chord/
total surface chord0.4000.400

At Inb'd equiv. chord

0.4000.400

At Outb'd equiv. chord

Sweep Back Angles, degrees

Leading Edge

34.8334.83

Tailing Edge

26.2526.25

Hingeline

34.8334.83Area Moment (Normal to hinge line)- FT³526.130.002526

Product of Area and Mean Chord

TABLE III. Continued

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - SBGENERAL DESCRIPTION: Booster Solid Rocket, 3 Configuration, Body of
Revolution, Data for (1) of (2) sides, per Rockwell Lines VL77-000036
and VL72-000028Model Scale = 0.010

DRAWING NUMBER

VL72-000088

VL77-000036

MODEL DRAWING: SS-A09113

DIMENSION:FULL SCALEMODEL SCALE

Length (Includes Nozzle) - IN.

1741.017.410

Max Width (Tank Dia.) - IN.

142.01.420

Max Depth (Aft Shroud) - IN.

205.02.050

Fineness Ratio

8.492688.49268Area - FT²

Max Cross-Sectional

229.210.02292

Planform

Wetted

Base

WP of BSRM Centerline (Z_T) - IN.400.0FS of BSRM Nose (X_T) - IN.200.0

TABLE III. Continued

MODEL COMPONENT: EXTERNAL TANK - T₁₀

GENERAL DESCRIPTION: External Oxygen-Hydrogen Tank, 3 Configuration, per
Rockwell Lines Drawing VL78-000041 and VL72-000088

MODEL SCALE: 0.010

DRAWING NUMBER: VL72-000088
VL78-000041

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length - In. (Nose @ $X_T = 309$)	<u>1865</u>	<u>18.65</u>
Max. Width (Dia.) - In.	<u>324</u>	<u>3.24</u>
Max. Depth	<u>--</u>	<u>---</u>
Fineness Ratio	<u>5.75617</u>	<u>5.75617</u>
Area - ft^2		
Max. Cross-Sectional	<u>572.555</u>	<u>0.0573</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>---</u>	<u>---</u>
W.P. of Tank Centerline (X_T) In.	<u>400.0</u>	<u>4.00</u>

TABLE III. Continued

MODEL COMPONENT: VERTICAL - V₇GENERAL DESCRIPTION: Centerline vertical tail, double-curved airfoil with rounded leading edge.NOTE: Same as V₆, but with manipulator housing removed.MODEL SCALE: 0.010

DRAWING NUMBER:

VL70-000130DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	<u>125.92</u>	<u>0.0125</u>
Planform		
Span (Theo) In	<u>315.72</u>	<u>3.157</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>2.685</u>
Tip (Theo) WP	<u>108.47</u>	<u>1.085</u>
MAC	<u>199.81</u>	<u>1.998</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>14.635</u>
W. P. of .25 MAC	<u>635.522</u>	<u>6.355</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.000</u>	<u>10.000</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.0</u>	<u>0.020</u>
Void Area	<u>13.17</u>	<u>0.131</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

TABLE III. Continued

MODEL COMPONENT: WING-W 107

GENERAL DESCRIPTION: Configuration 3 for Rockwell Line V170-0001300

NOTE: Same as W103, except cuff, airfoil and incidence angle.

Model Scale = 0.010

TEST NO.

Dwg. NO. V170-0001300

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees (@ TE of Elevon)

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)
XXXX-64Root $\frac{b}{2}$ =Tip $\frac{b}{2}$ =

Data for (1) of (2) Sides

Leading Edge Cuff $\frac{b}{2}$ Planform Area Ft^2

Leading Edge Intersects Fus M. L. 0 Sta

Leading Edge Intersects Wing @ Sta 48

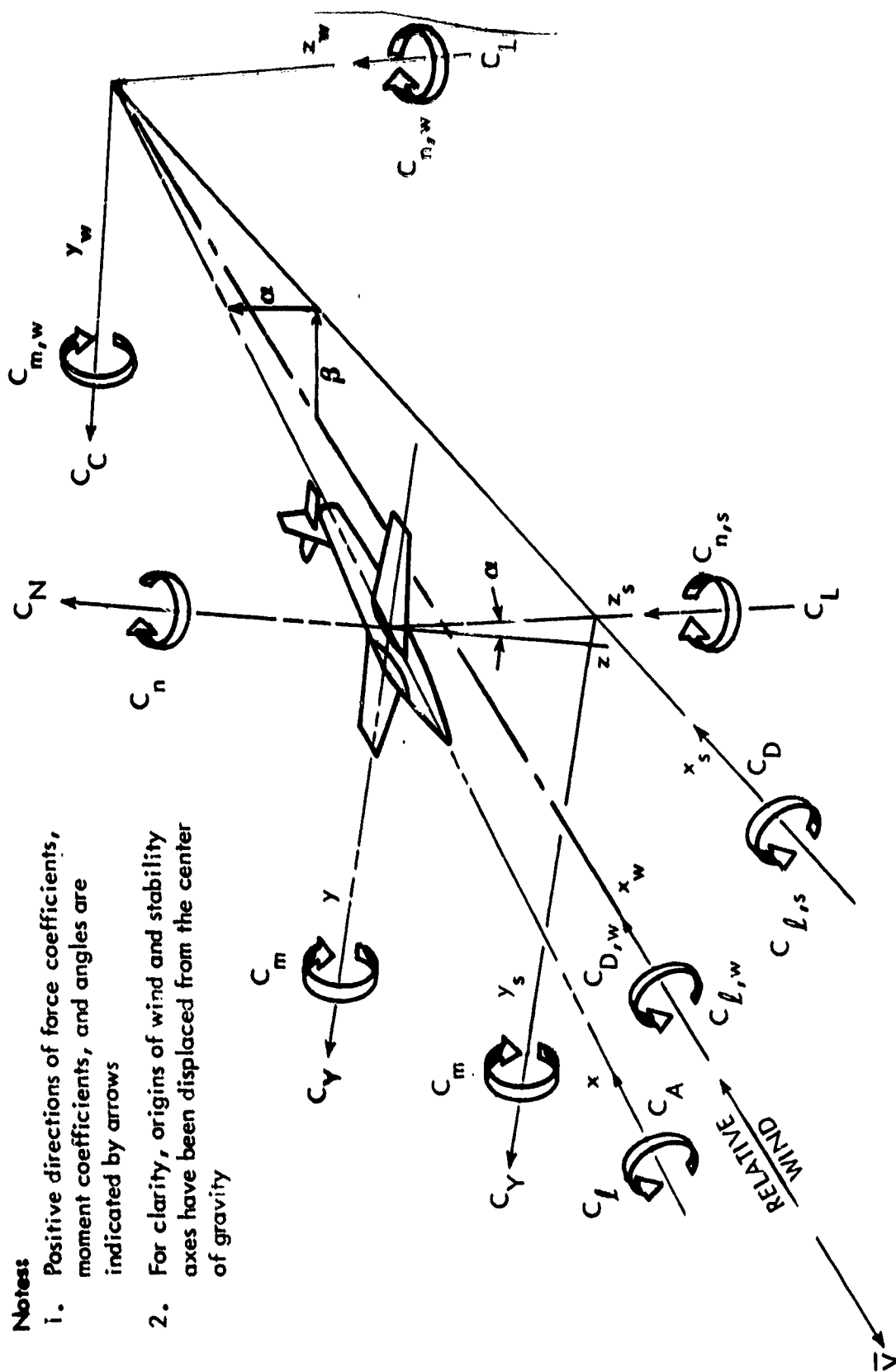
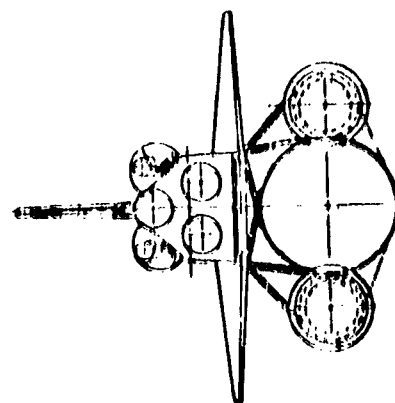
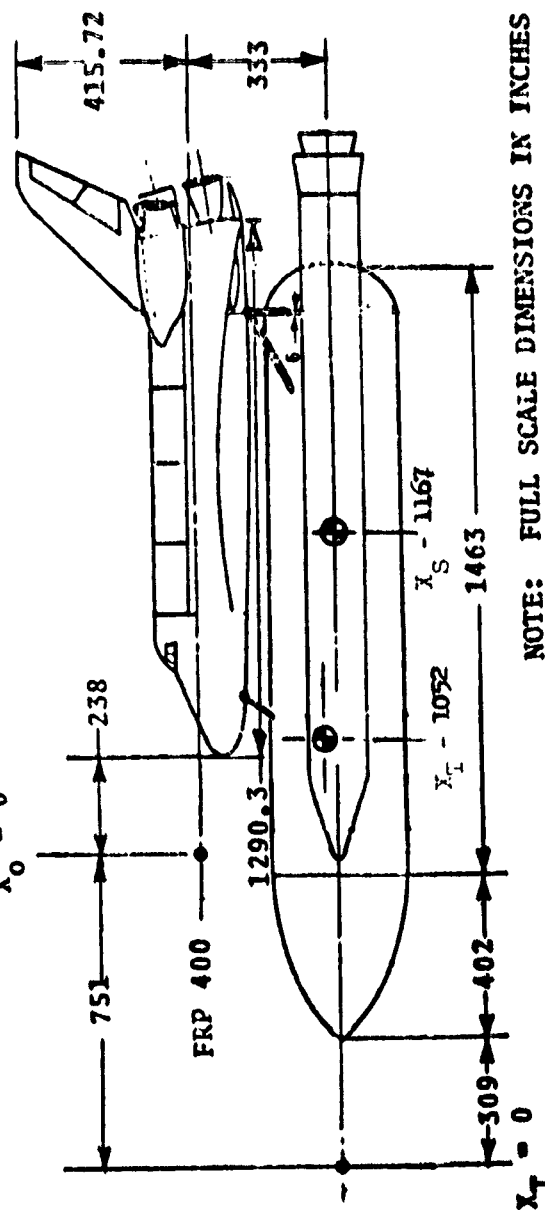
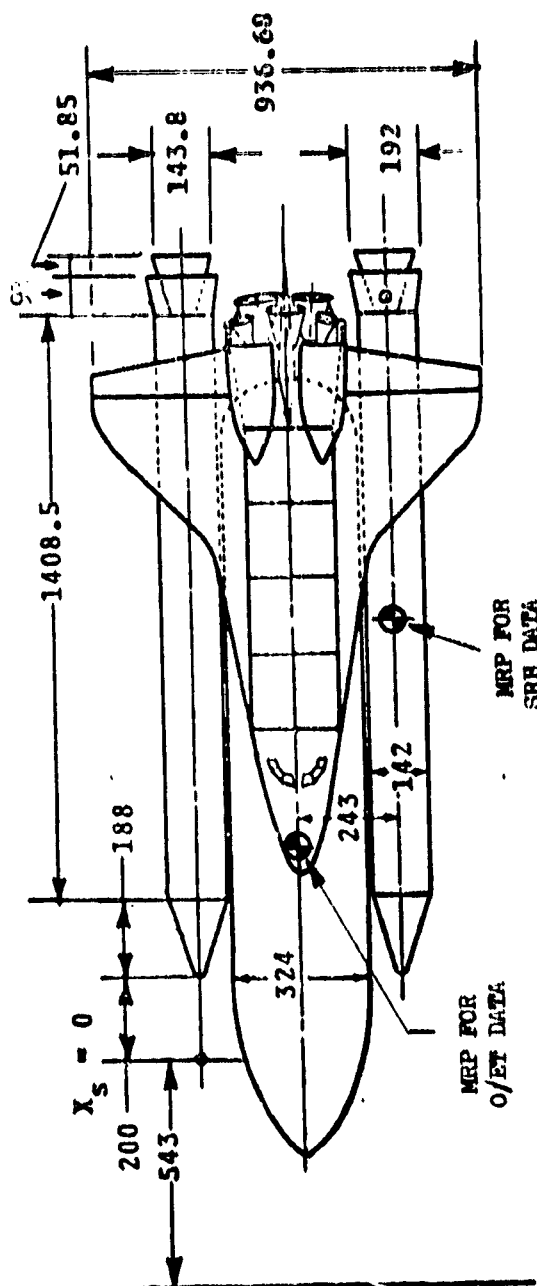
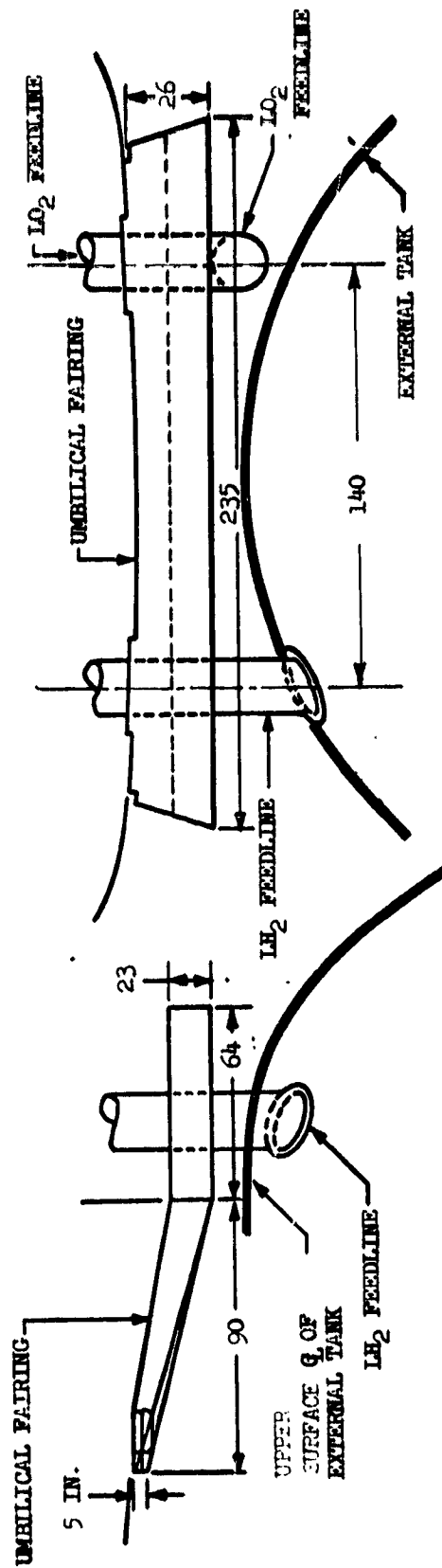


Figure 1. Axis Systems

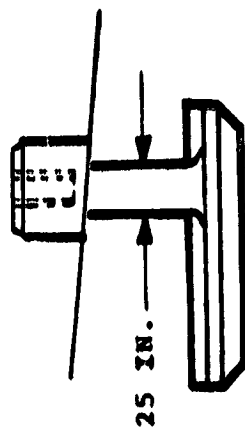
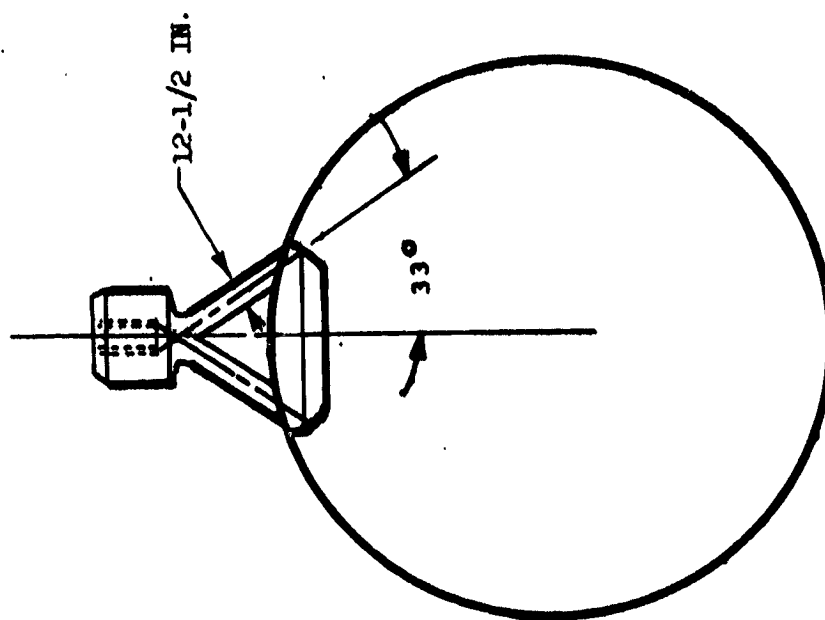


NOTE: FULL SCALE DIMENSIONS IN INCHES
a. Integrated Vehicle Configuration 3 (Mated)
Figure 2. Model Sketches

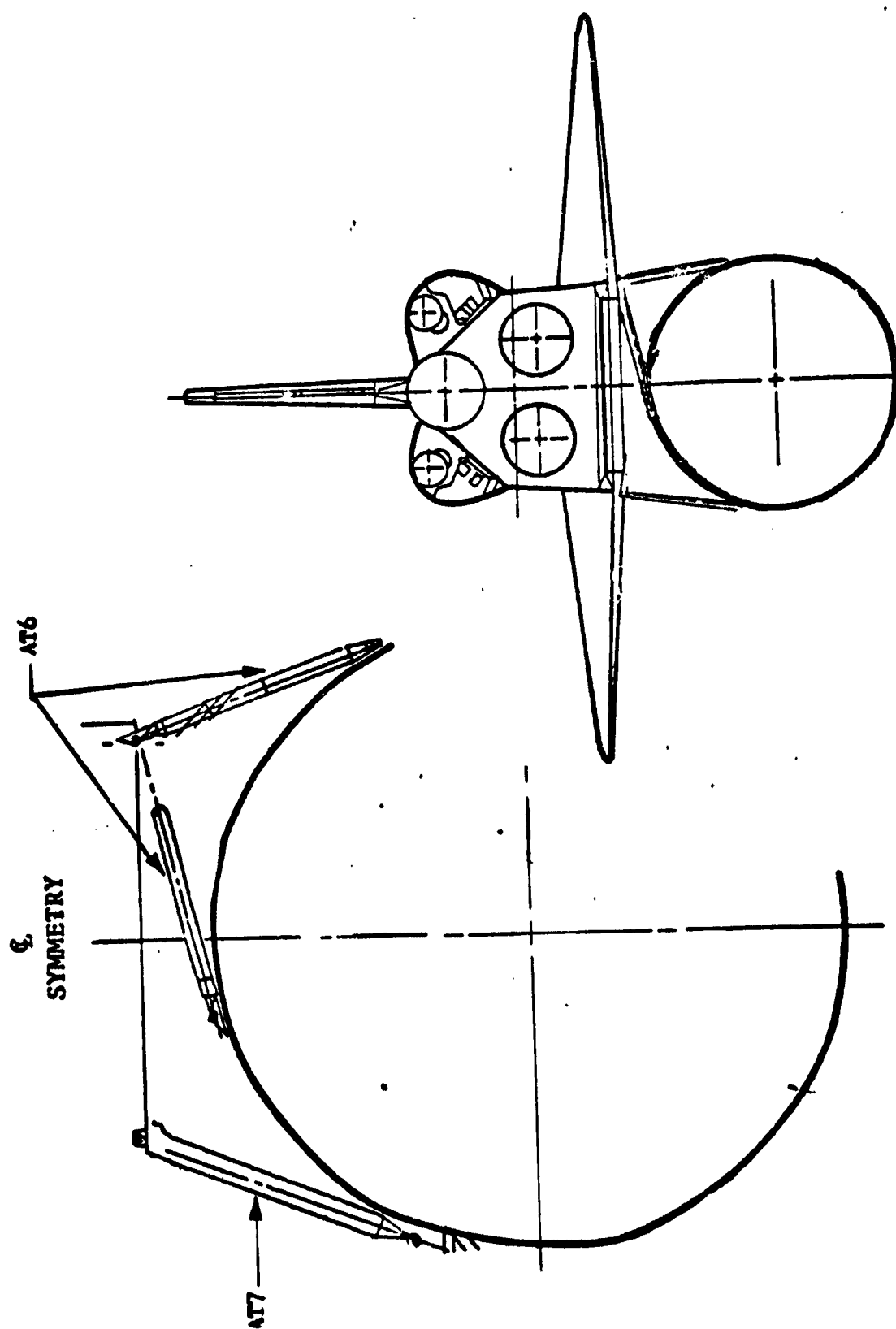


NOTE: ALL DIMENSIONS ARE APPROXIMATE
AND IN INCHES

b. Orbiter Umbilical Fairing (FR5) and LO₂ (FL1) and LH₂ (FL2) Feedlines
Figure 2. Continued

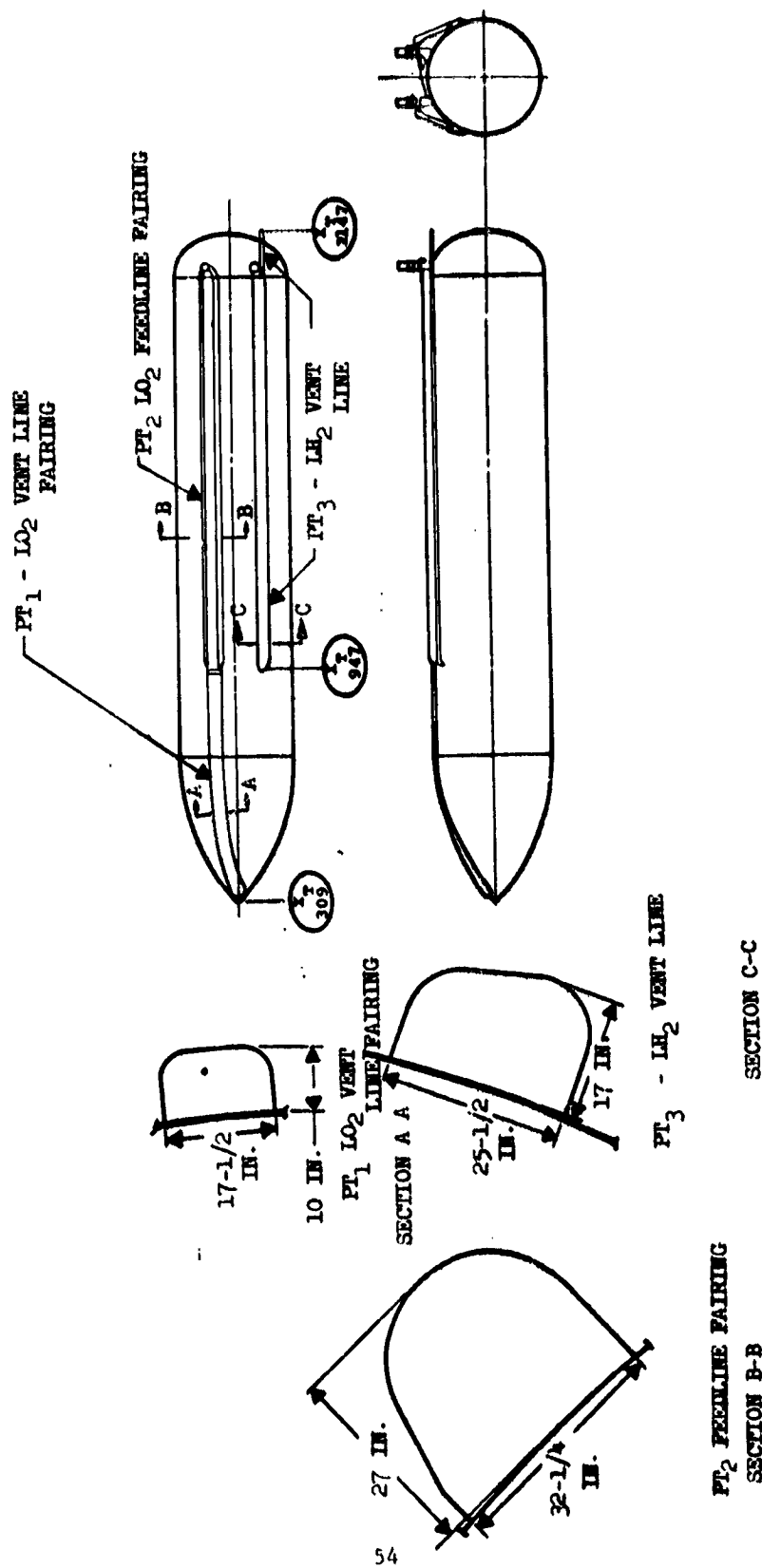


c. Forward Attachment of the External Tank to the Orbiter (AT₁₁)
Figure 2. Continued

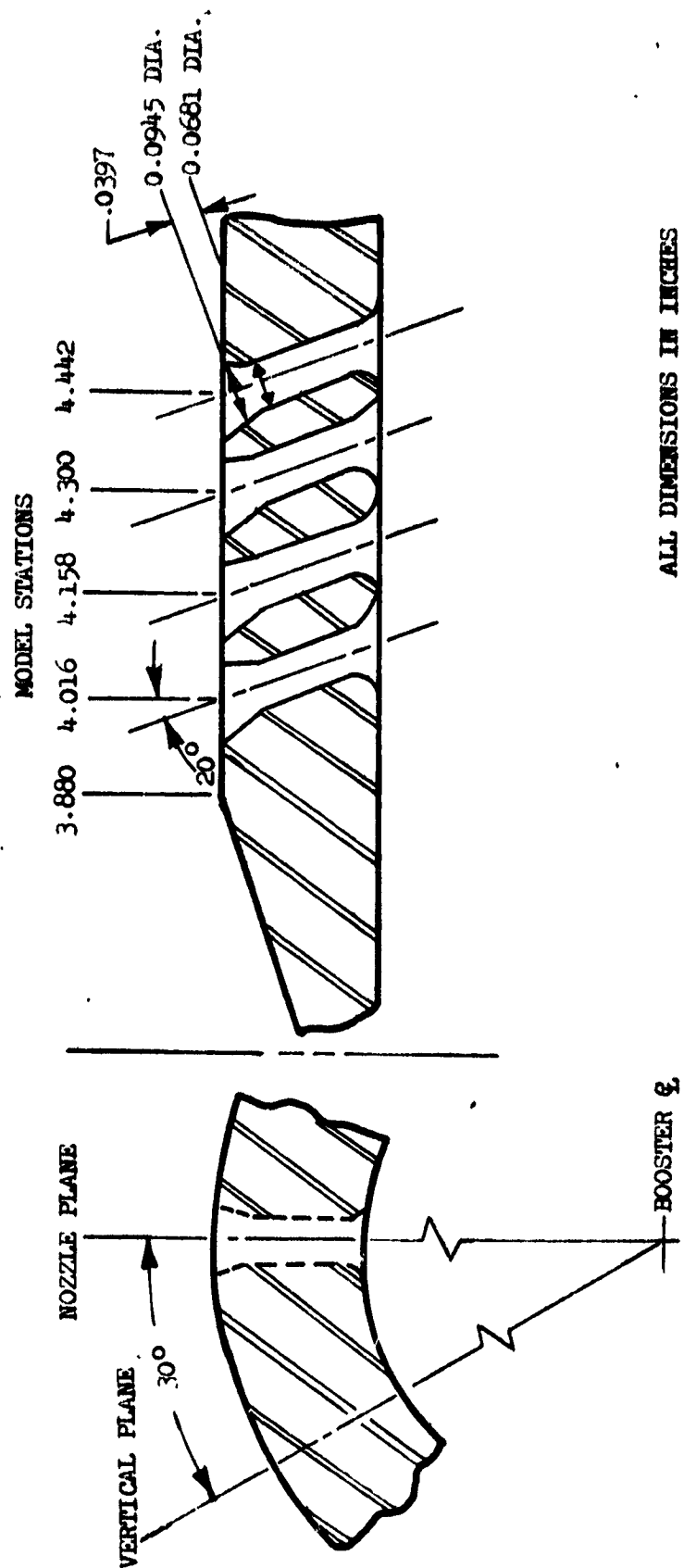


d. Aft Attachment of External Tank to Orbiter (AT6, AT7)
Figure 2. Continued

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ORIGINAL PAGE IS POOR.



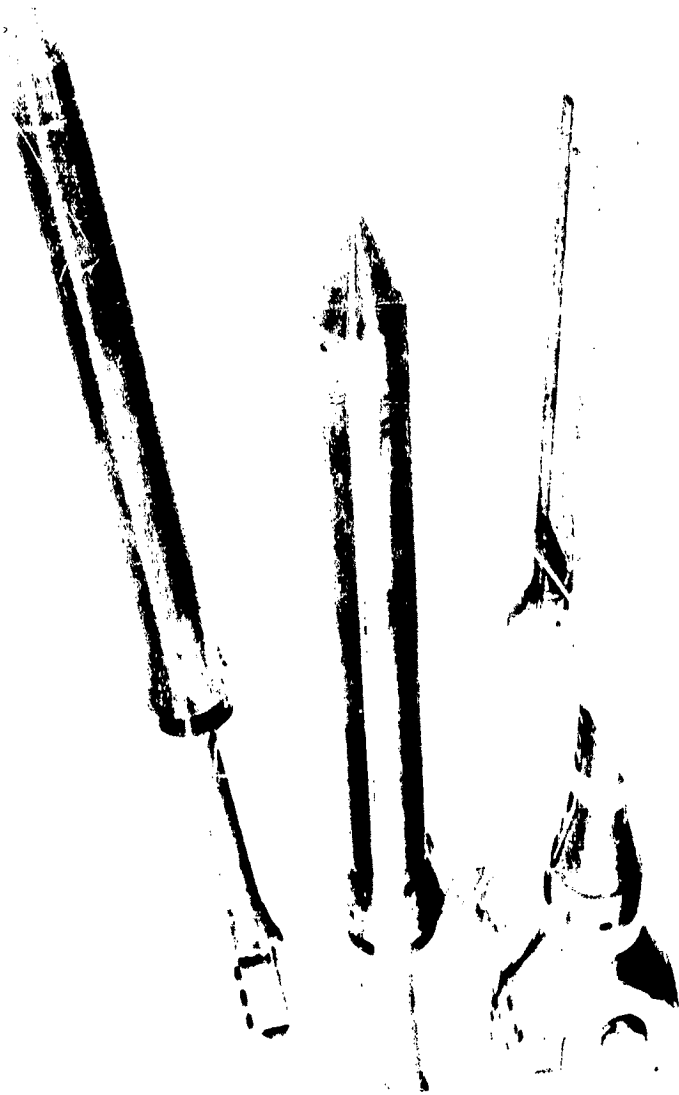
e. External Tank Protuberances (PT₁, PT₂, PT₃)
Figure 2. Continued



g. Booster Forward Separation Rocket Nozzle Block (N₆₄)
Figure 2. Continued



a. Orbiter/ET with SRBs in Position 1 (Mated)
Figure 3. Model Photographs



- b. Orbiter/ET with Right SRB in Position 3 ($t=2$ seconds on Nominal Separation Trajectory) and Left SRB in Position 2 ($t=1.25$ sec.)
Figure 3. Continued



c. Orbiter/ET with both SRBs in Position 3 ($t=2$ seconds on Nominal Separation Trajectory)

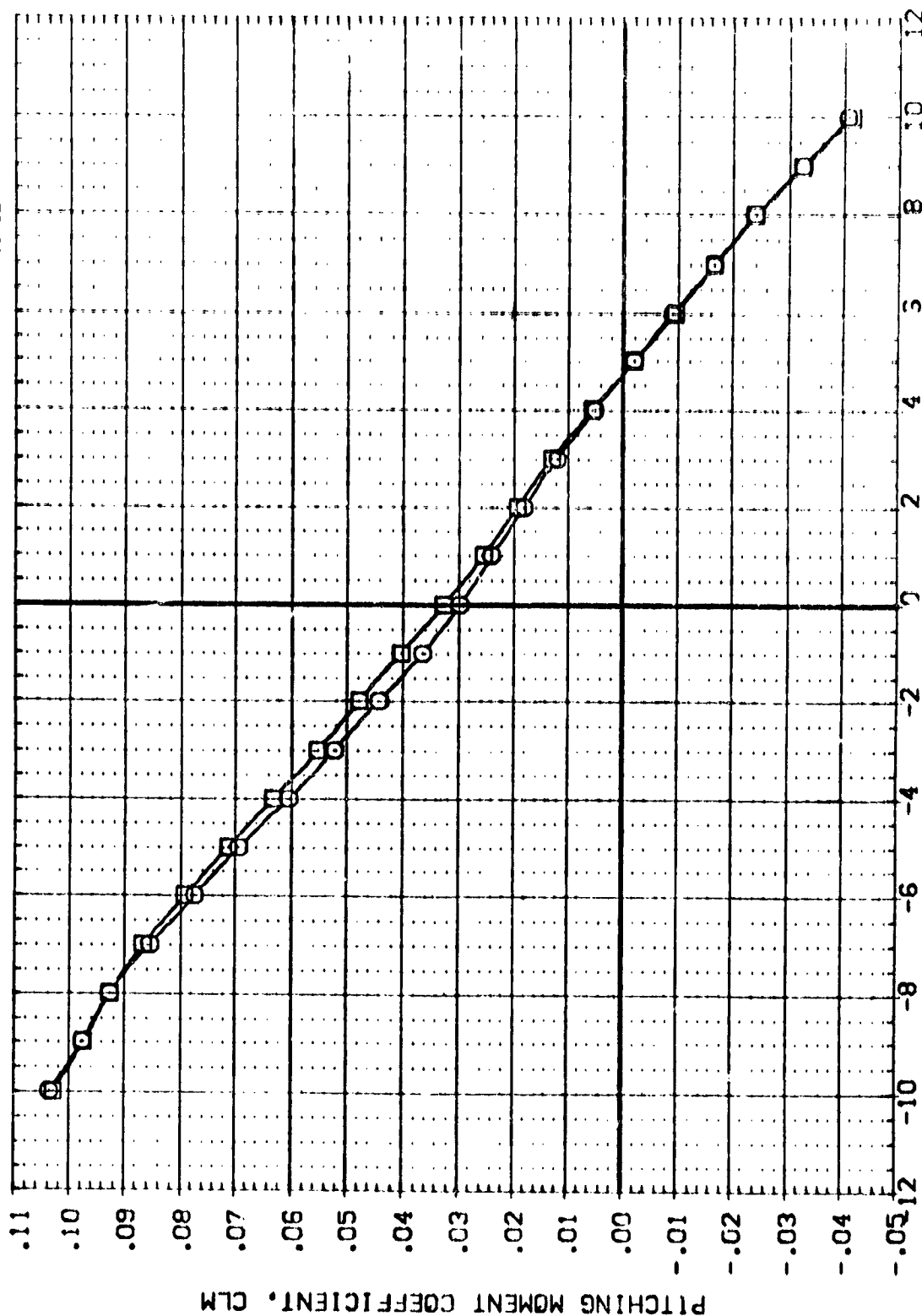
Figure 3. Continued

DATA FIGURES

DATA SET SYMBOL: (RTLOO1) 9
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57): ISOLATED ORBITER
 (RTLOO5) AEDC VA-422(1A-57): ISOLATED ORBITER

RN/L: 1.760
 BETA: .000
 6.750

REFERENCE INFORMATION:
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 LREF: 1250.000 25.000
 BREF: 1250.000 25.000
 VREF: 1250.000 25.000
 WREF: 1250.000 25.000
 X: 1250.000
 Y: 1250.000
 Z: 1250.000
 SCALE: 457.000

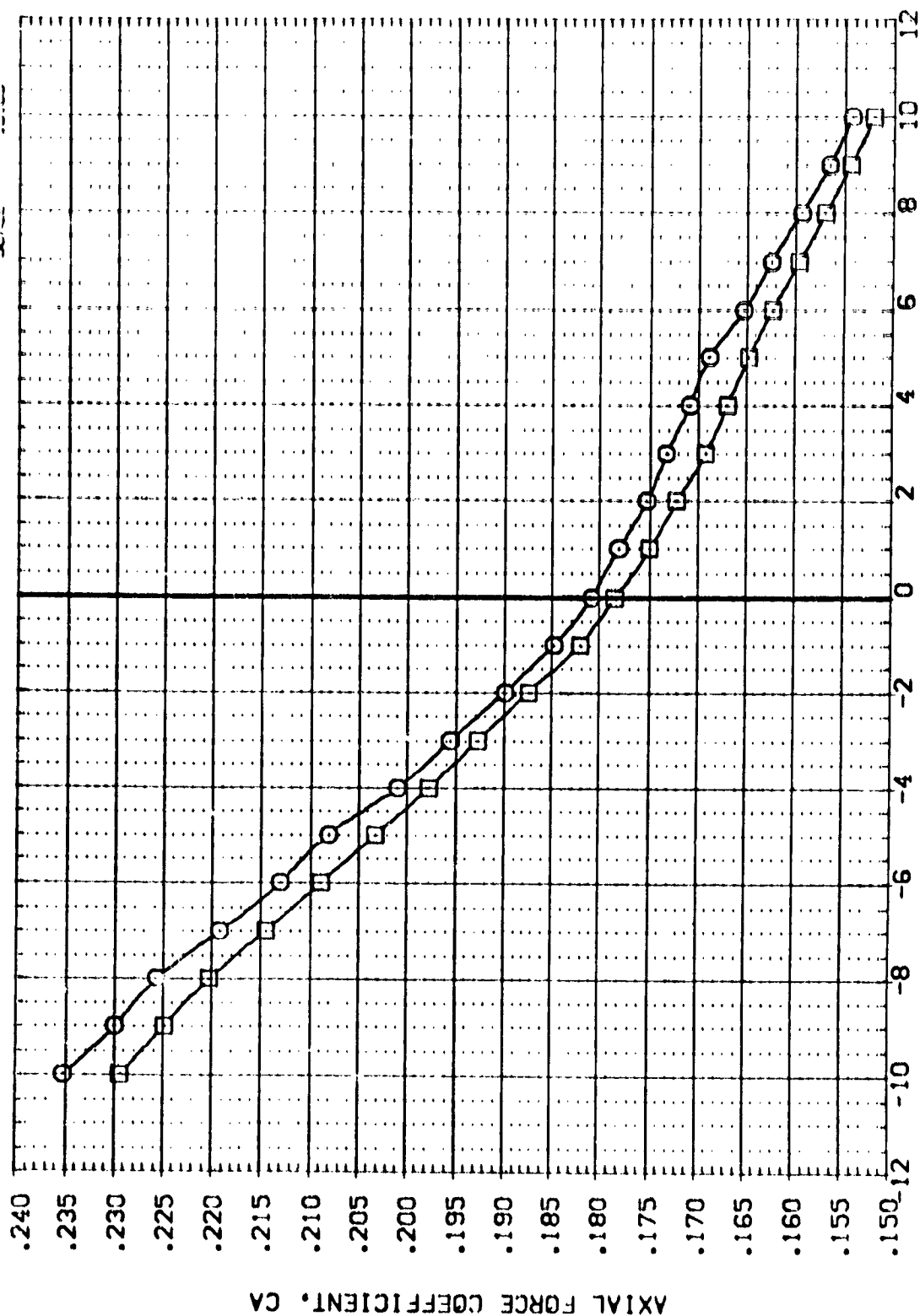


REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

(MACH = 4.50)

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(RTLO05)	<input type="checkbox"/>	AEDC VA-422[1A-57]; ISOLATED ORB/ET

PNL	BETA
1.760	.000
6.750	.000

[illegible]

ANGLE OF ATTACK, ALPHA, DEGREES

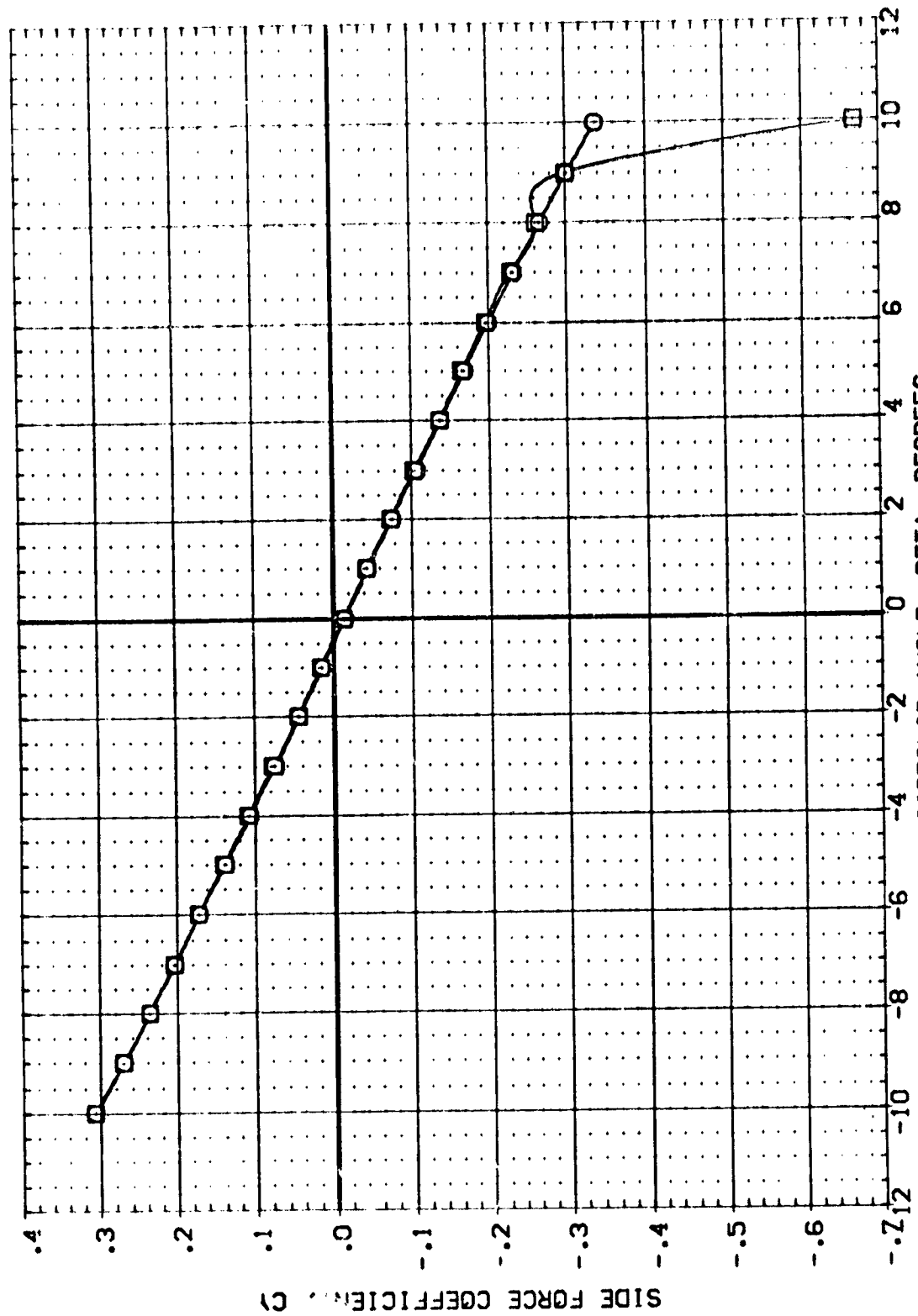
REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

CAMACH = 4.50

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 (RTLOC) AEDC VA-422(1A-57): ISOLATED ORBITER

RN/L ALPHA
 1.760 .000
 6.750 .000

REFERENCE INFORMATION
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 YREF 0.0000
 ZREF 0.0000
 SCALE 447.3100



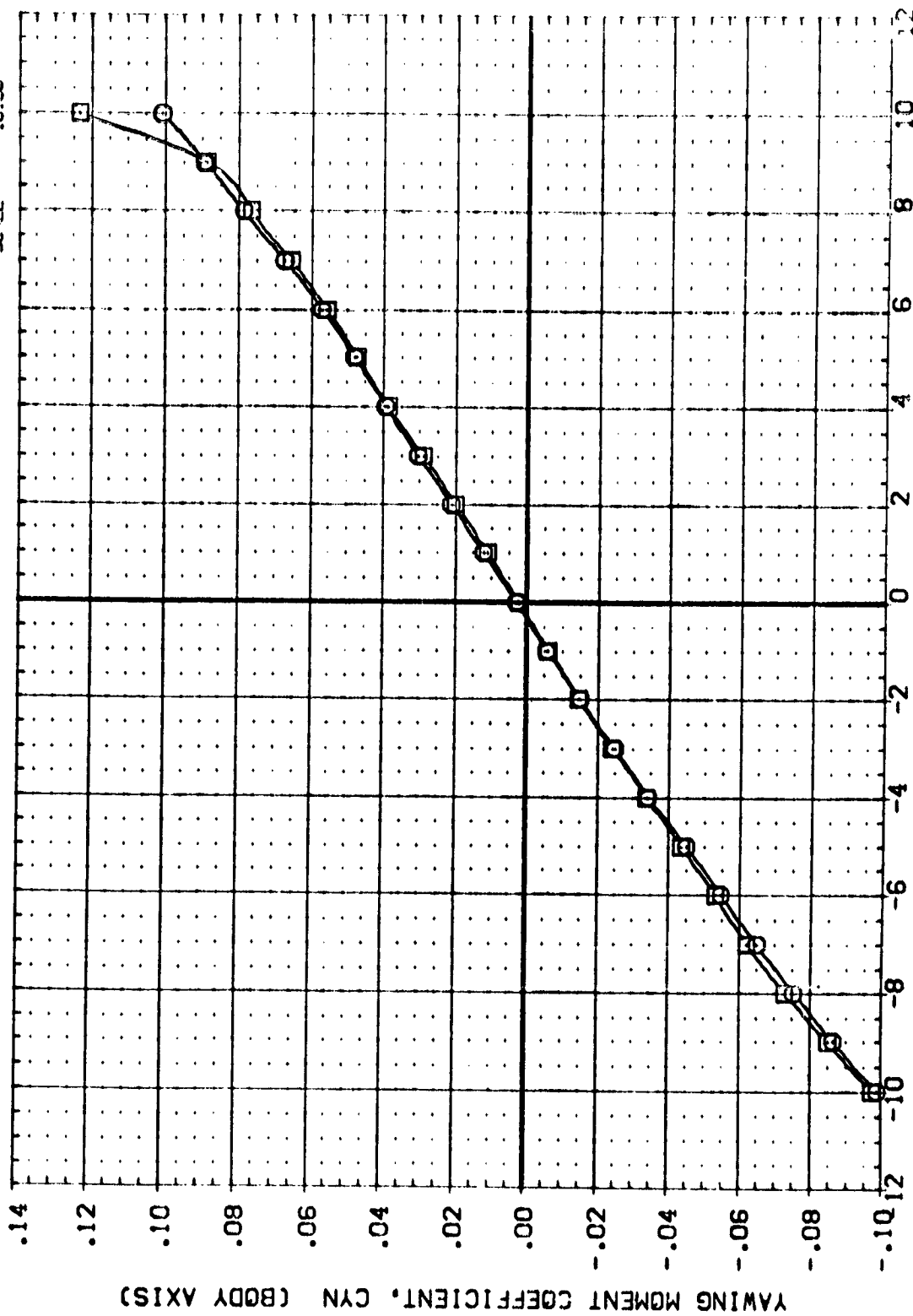
REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

(A)MACH = 4.50

DATA SET SYMBOL: (RTL002)
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTL006) AEDC VA-422(1A-57); ISOLATED ORB/ET

RVA: 1.750
 ALPHA: .000
 SCALE: 6.750

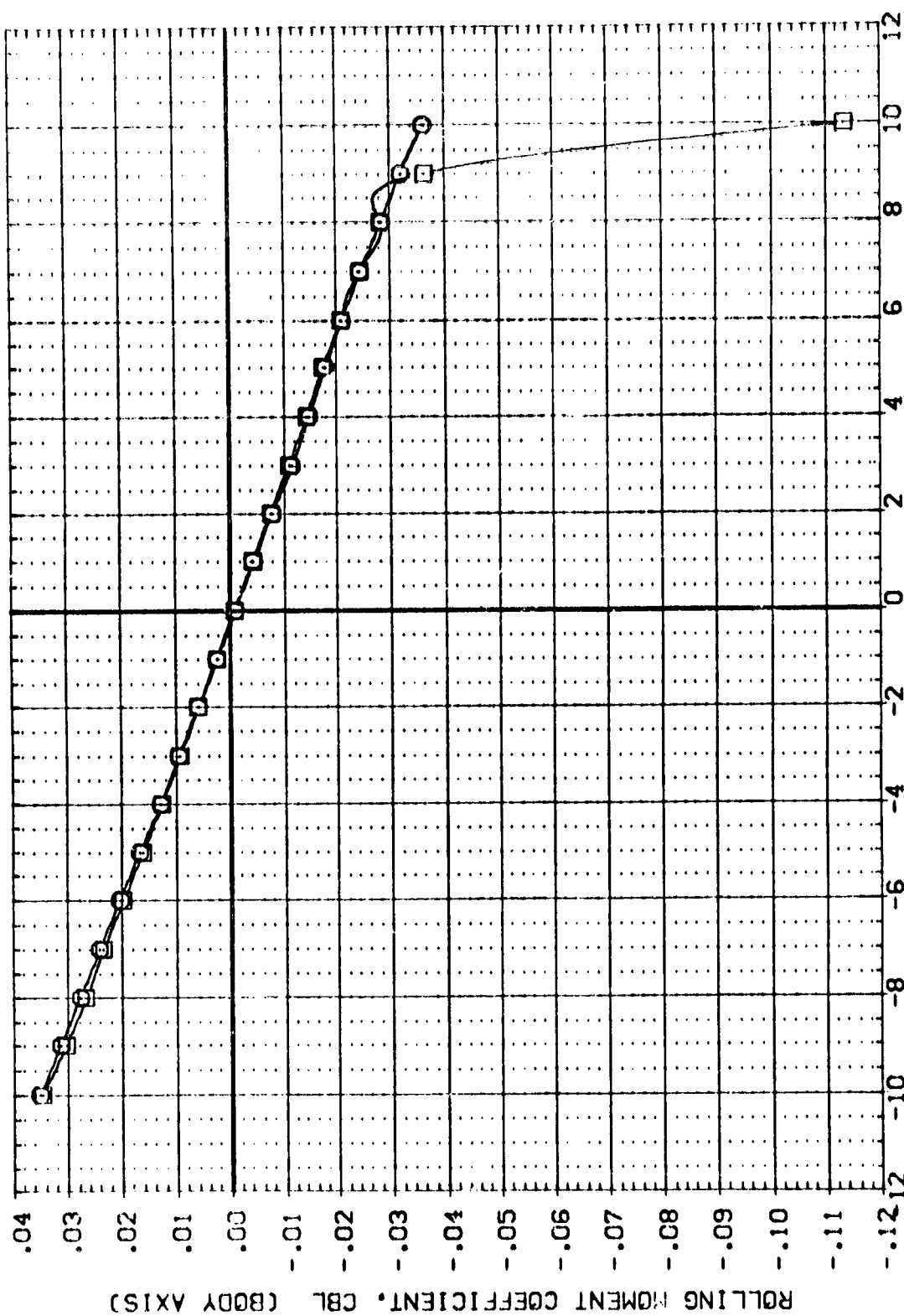
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 YMRP: .0000
 ZMRP: .0000
 SCALE: 447.0000



REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

(A)MACH = 4.50

RNA/L	ALPHA
1.760	.000
6.750	.000

[illegible]

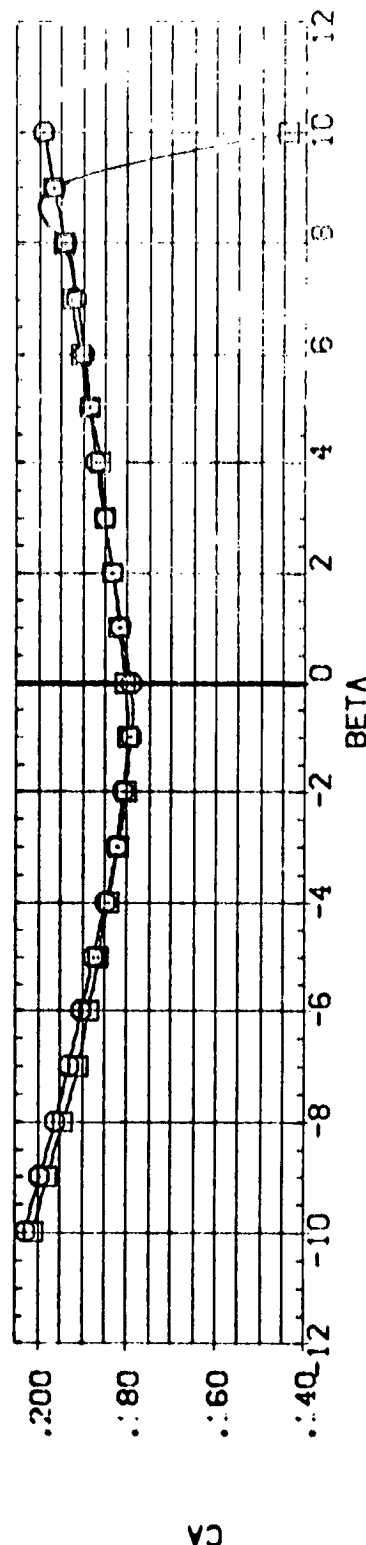
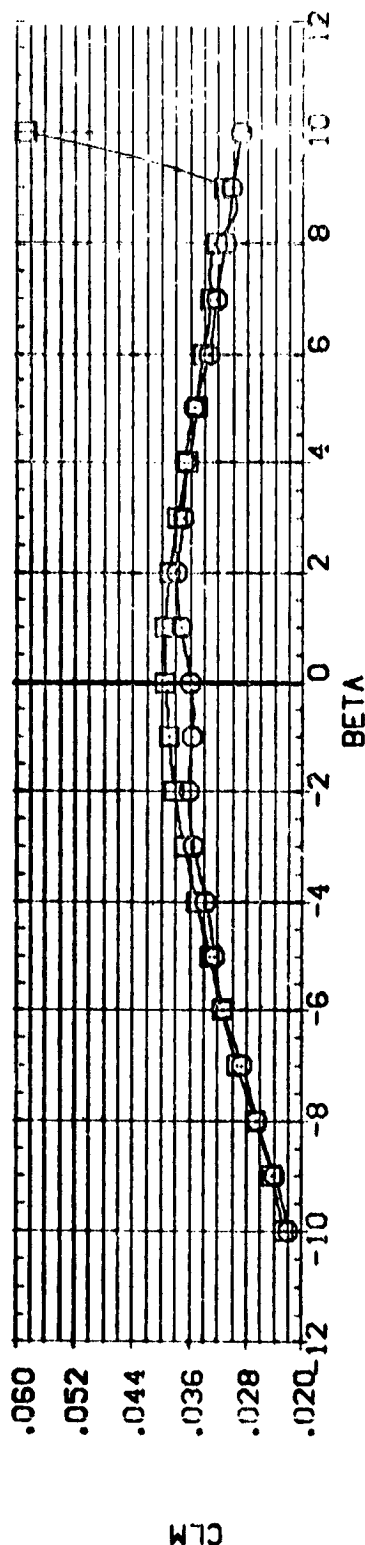
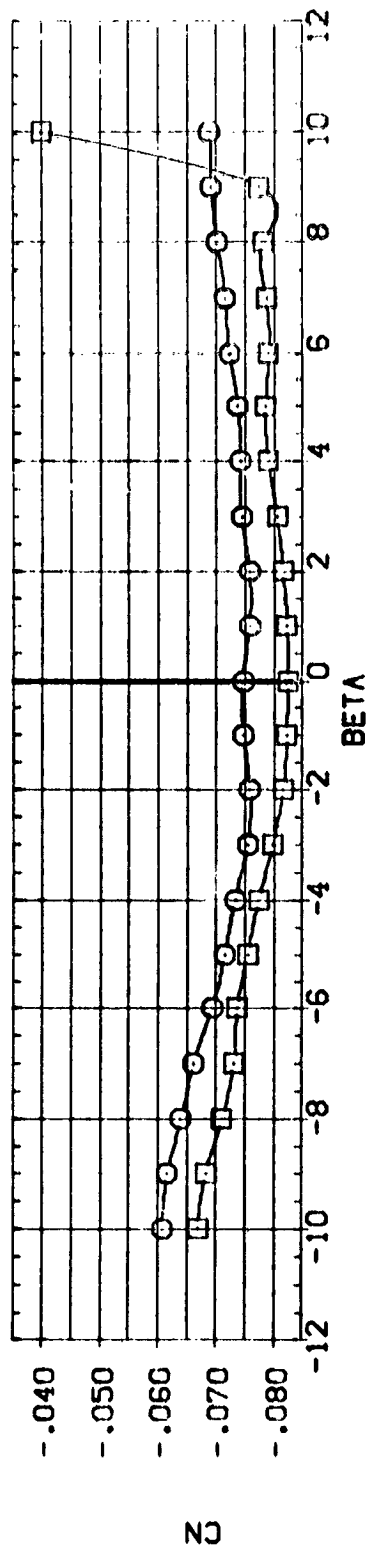
REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

$$[A]_{MACH} = 4.50$$

DATA SET SYMBOL: (RTL002) (RTL005)
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 AEDC VA-422(1A-57), ISOLATED ORBITER

RN/L: 1.760
 ALPHA: .000
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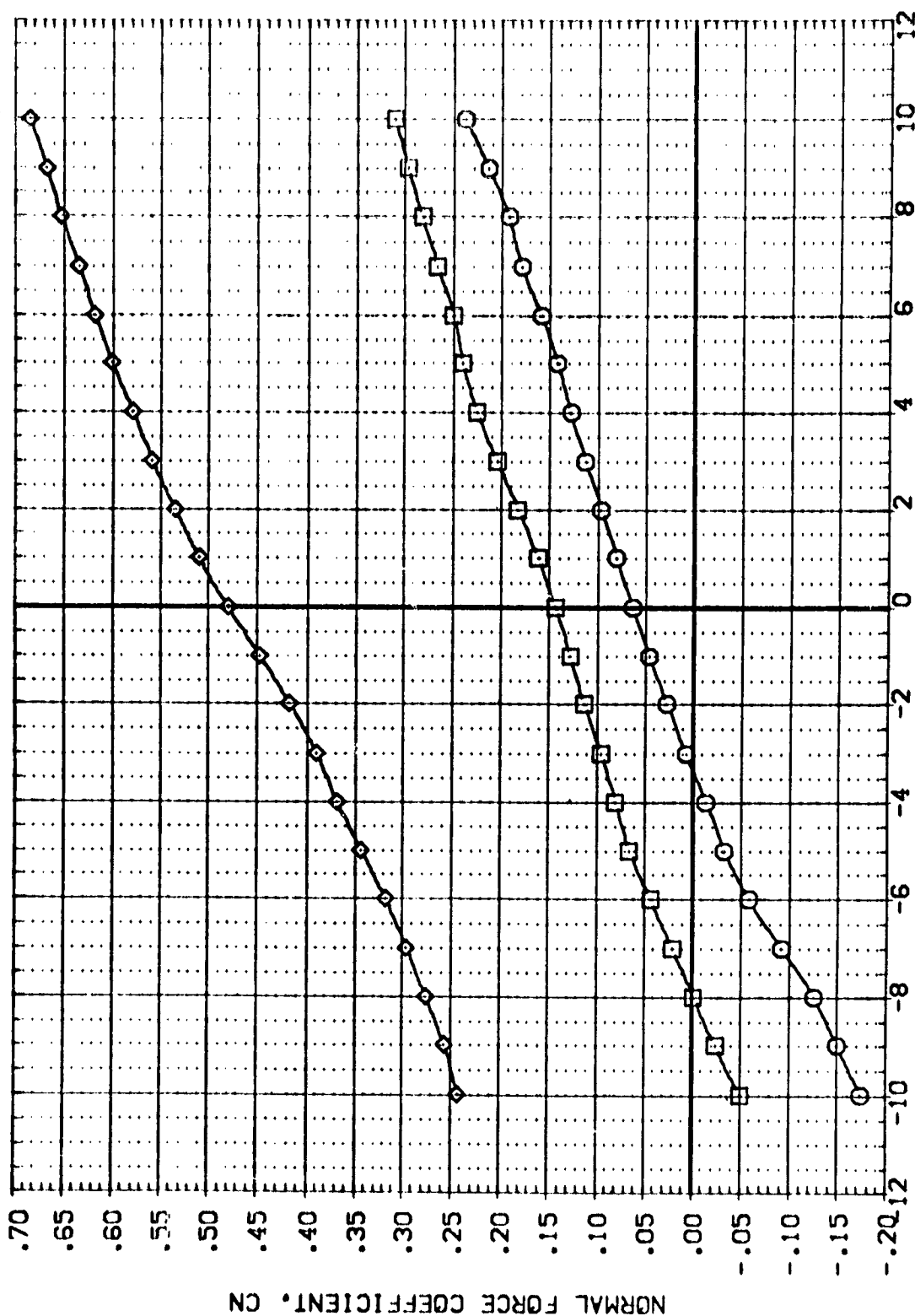
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REYNOLDS NUMBER EFFECT ON ISOLATED ORBITER CONFIGURATION

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ANGLE OF ATTACK, ALPHA, DEGREES

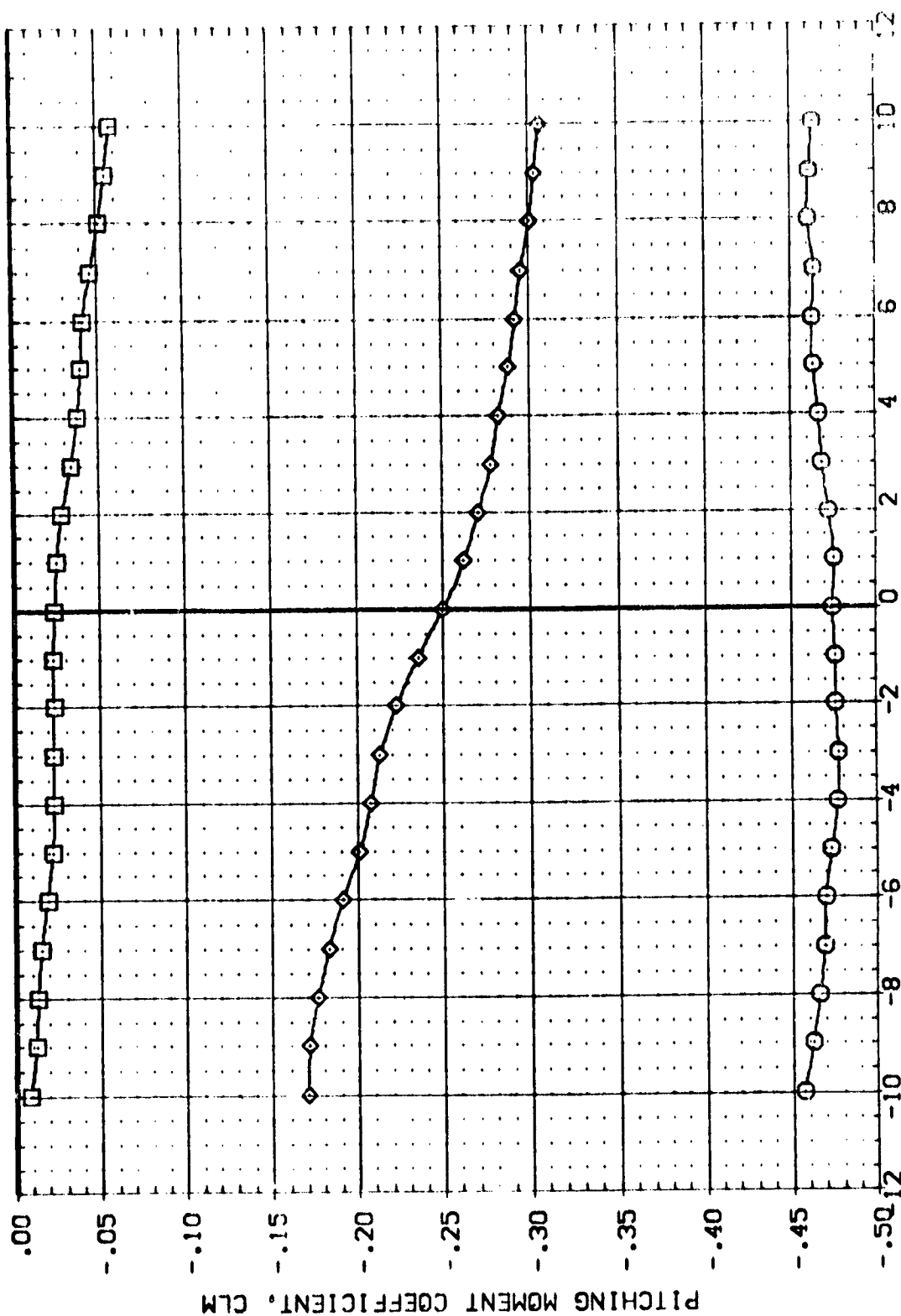
$$[A]_{\text{MACH}} = 4.50$$

(RTL031)
(RTL042)
(RTL053)

CONFIGURATION	DESCRIPTION
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AEDC VA-422(A-57)	ORB/ET V/BOTH SRB
AEDC VA-422(A-57)	ORB/ET V/BOTH SRB

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2.200	1.010	1500.000	.000
3.300	1.010	1500.000	.000

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XREF	052 0000
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SCALE	0.0000

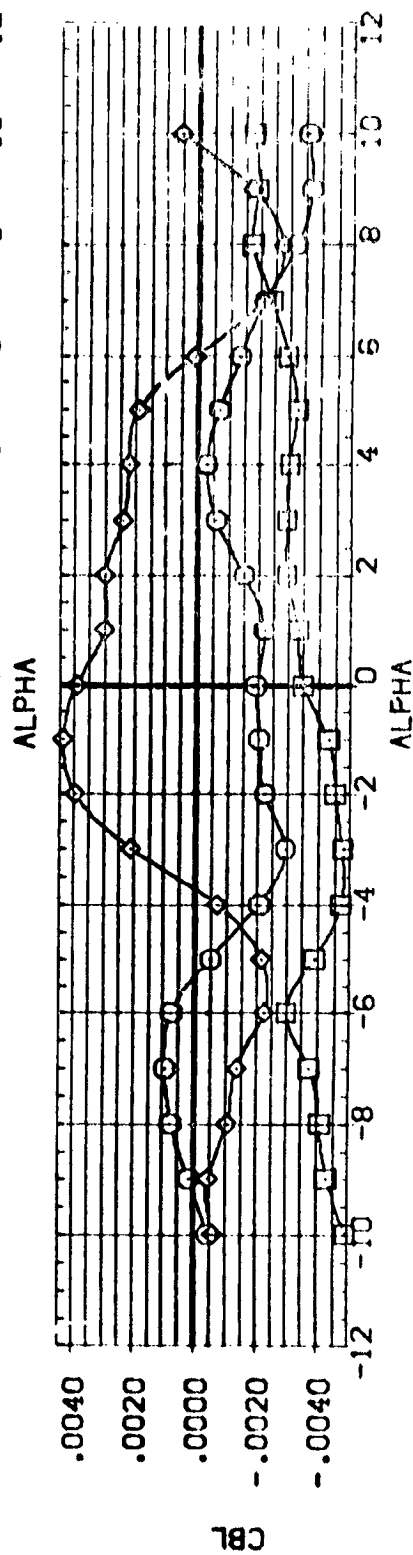
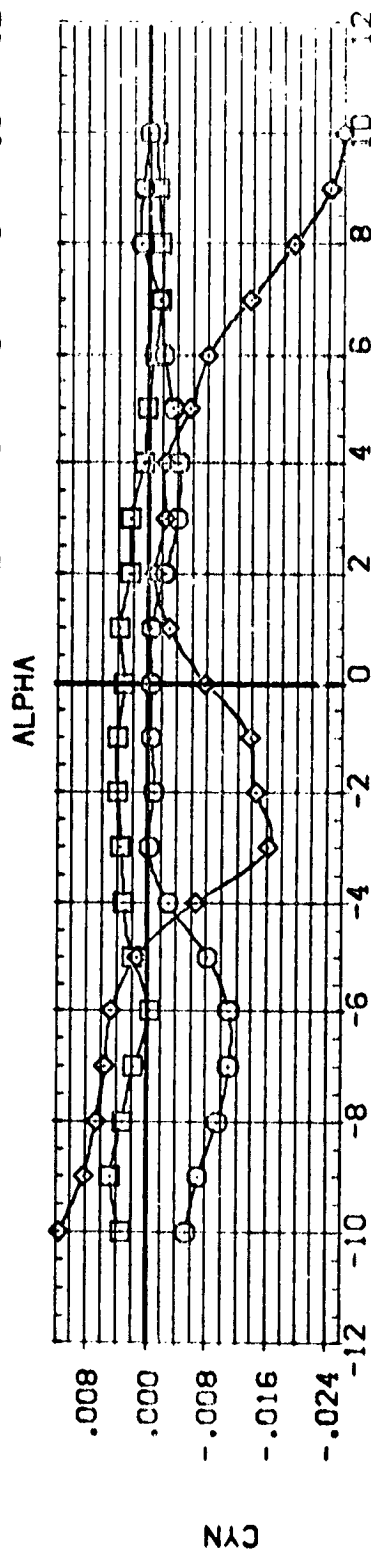
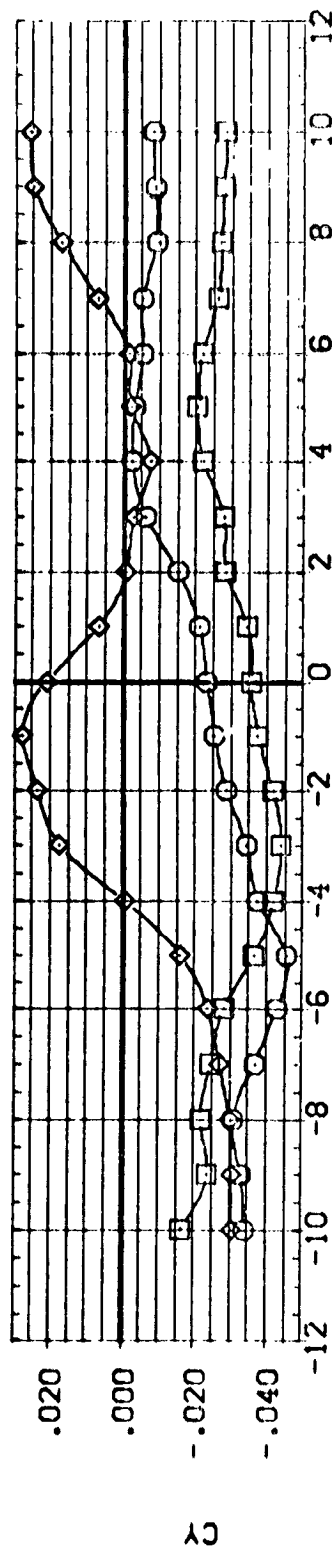


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/E/T CHARACTER. (RM/LE-1-313)

CALMACH = 4.50

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EFFECT OF SYMMETRICAL SRB SEPARATION ON O/E/T CHARACTER. (P/N/E=1.01)

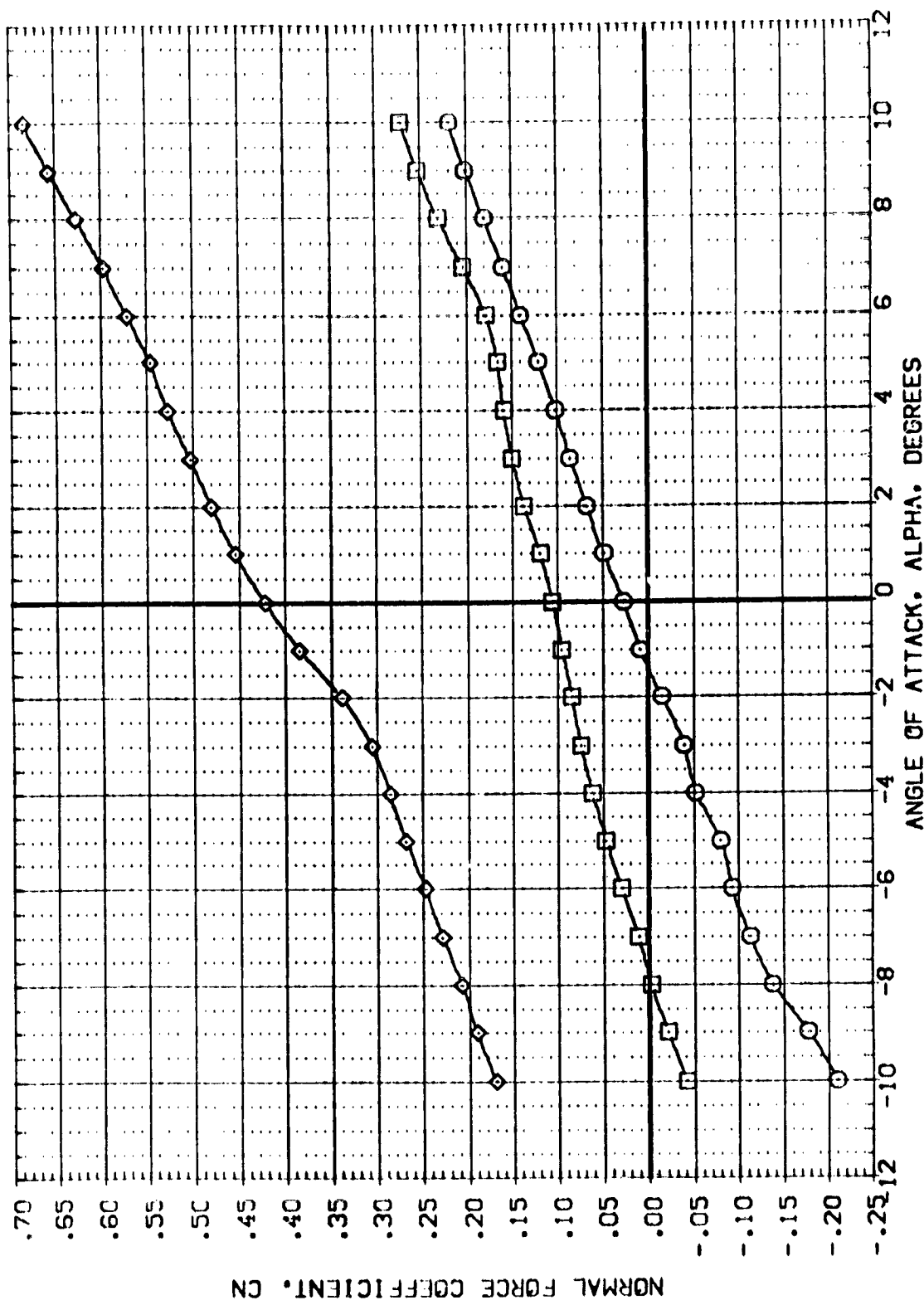
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(1)
"A
B

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 (PT-033) AEDC VA-422(1A-57), CRB/ET V/BOTH SRB
 (PT-034) AEDC VA-422(1A-57), CRB/ET V/BOTH SRB

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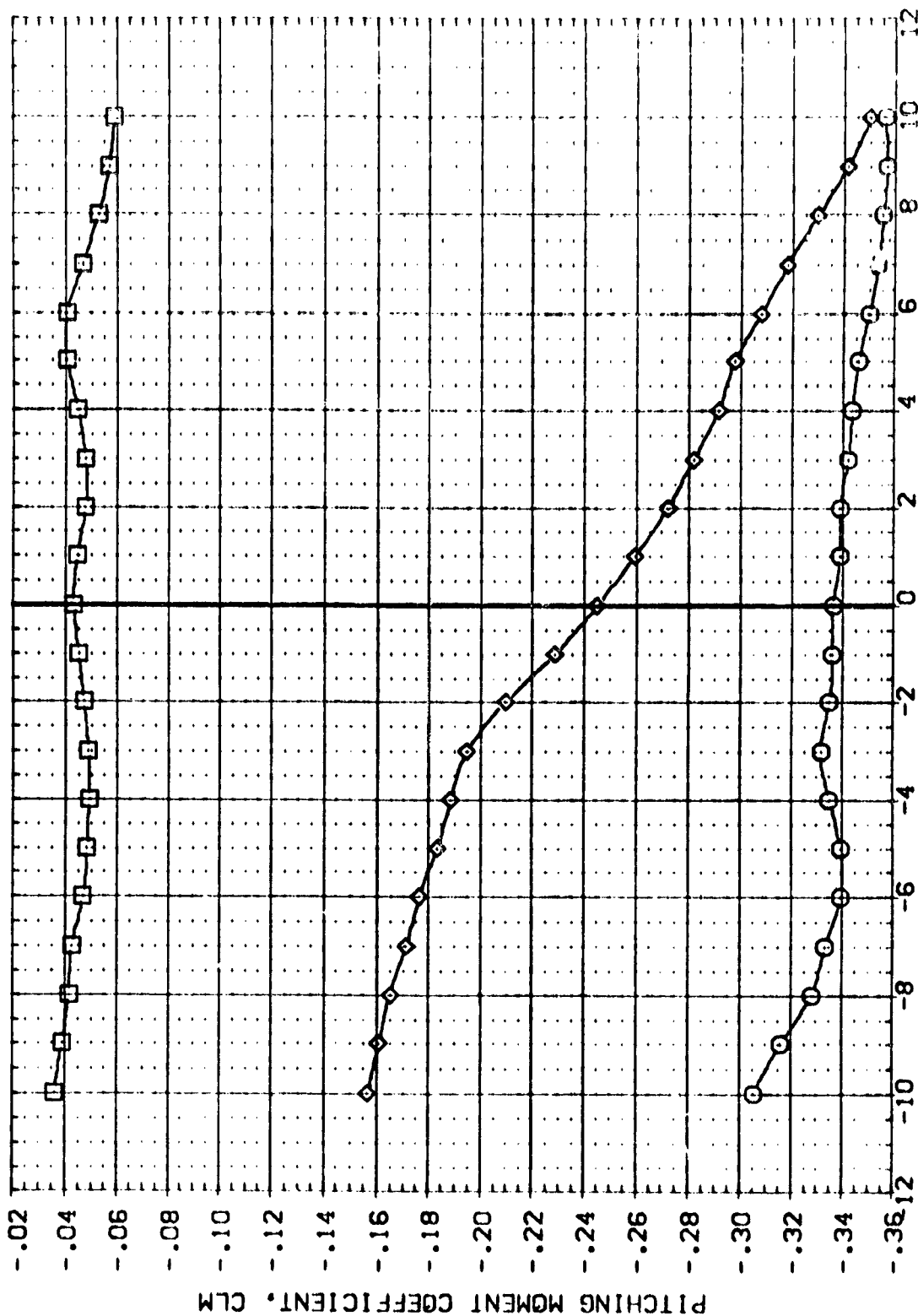


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/E/T CHARACTER. (RV/L=1.4)

CA/MACH = 4.50

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 (RTL043) AEDC VA-422(1A-57): ORB/ET V/80TH SRB
 (RTL054) AEDC VA-422(1A-57): ORB/ET V/80TH SRB

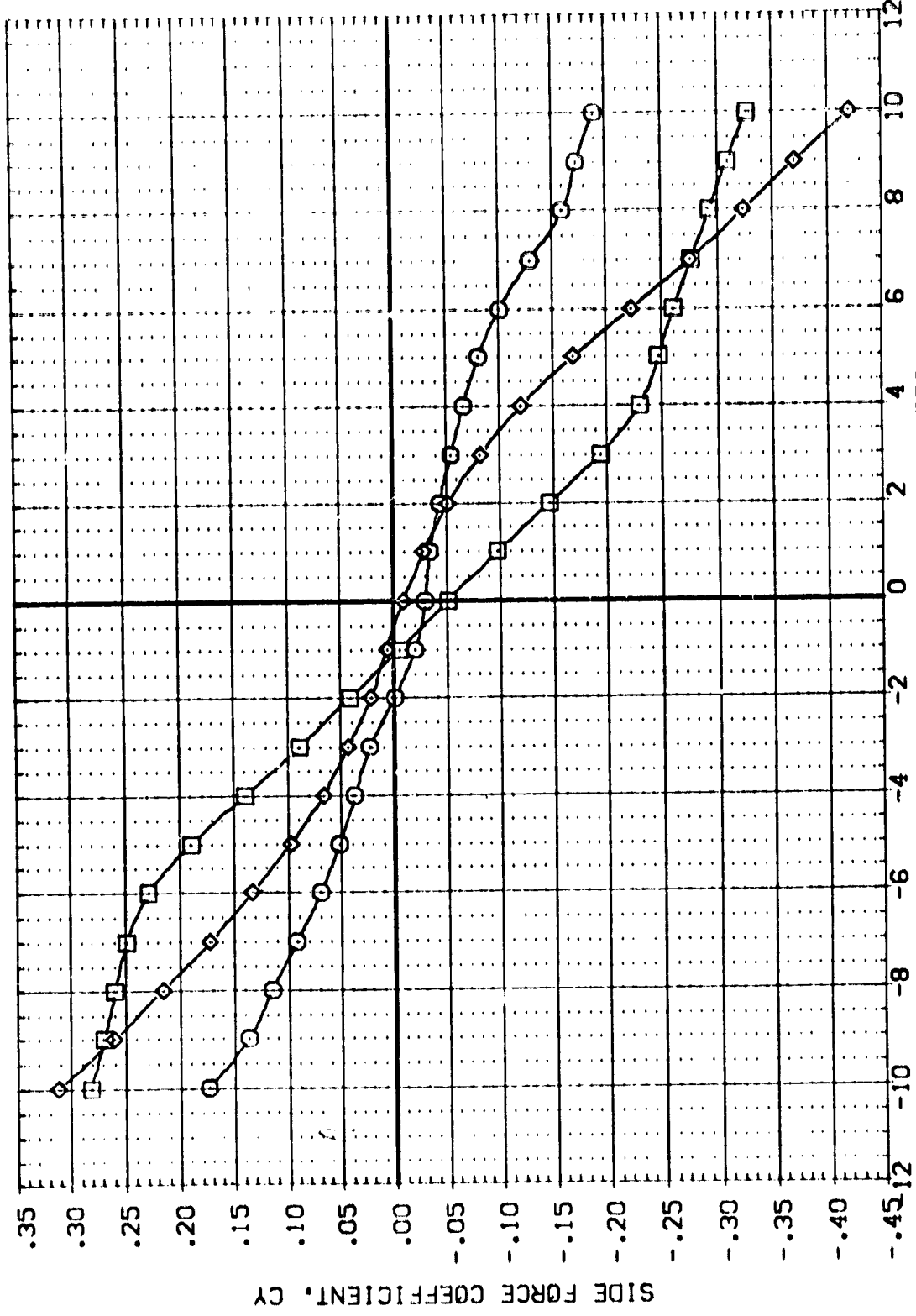
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 X-POD 2600.000
 Y-POD 2600.000
 Z-POD 2600.000
 SCALE 447.0350



EFFECT OF SYMMETRICAL SRB SEPARATION ON θ/ET CHARACTER. (RN/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB/OS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTL033)	AEDE VA-422(A-57); ORB/ET V/BOTH SRB	1.100	1.400	1500.000	.000	SPEED 2500 3000 3500
(RTL044)	AEDE VA-422(A-57); ORB/ET V/BOTH SRB	2.200	1.400	1500.000	.000	SCALE 1000 2000 3000 4000
(RTL055)	AEDE VA-422(A-57); ORB/ET V/BOTH SRB	3.300	1.400	1500.000	.000	SCALE 1000 2000 3000 4000

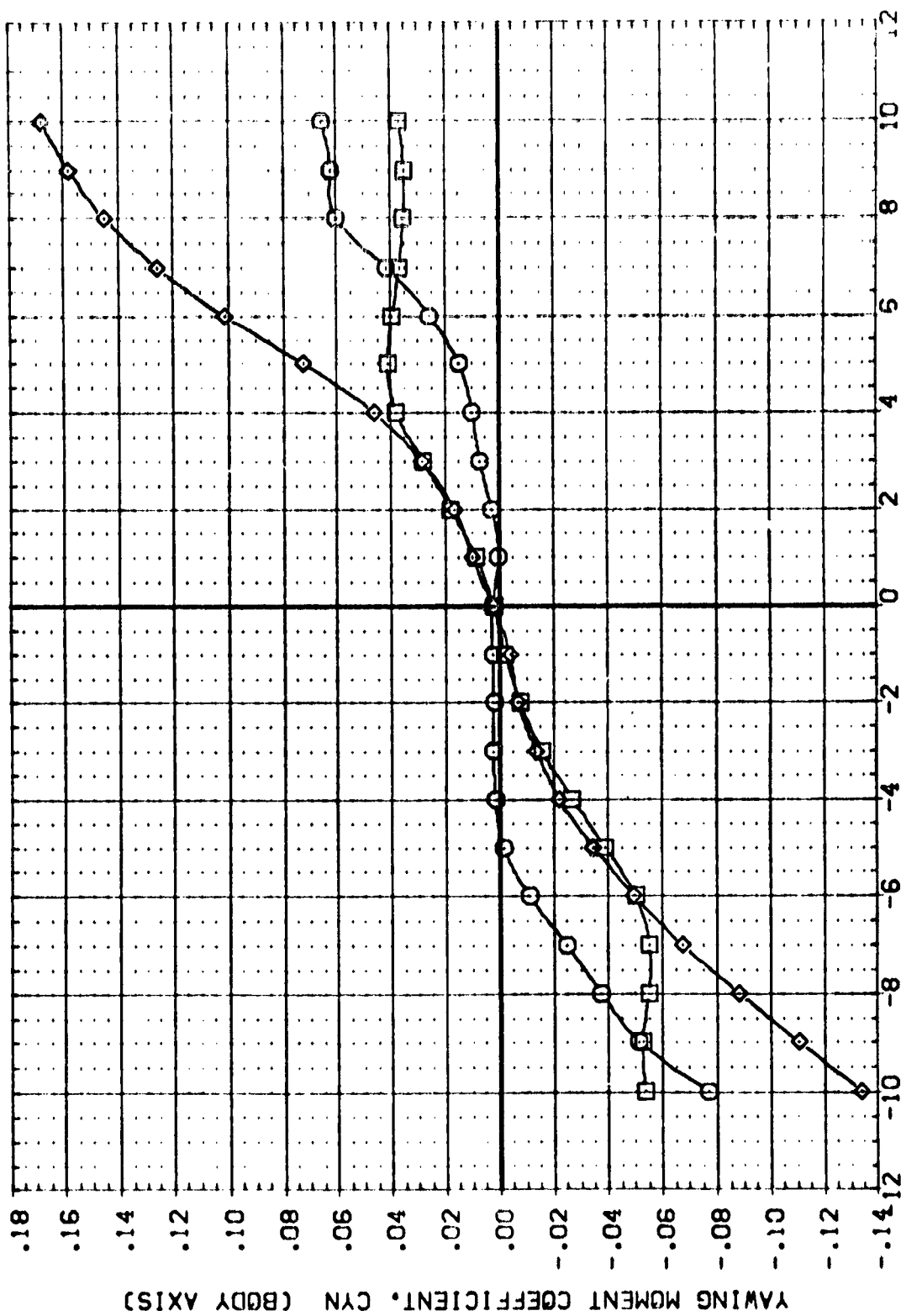


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.4)

(A) MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO33) AEDC VA-422(A-57); CRB/ET V/80TH SRB
 (RTLO44) AEDC VA-422(A-57); CRB/ET V/80TH SRB
 (RTLO55) AEDC VA-422(A-57); CRB/ET V/80TH SRB

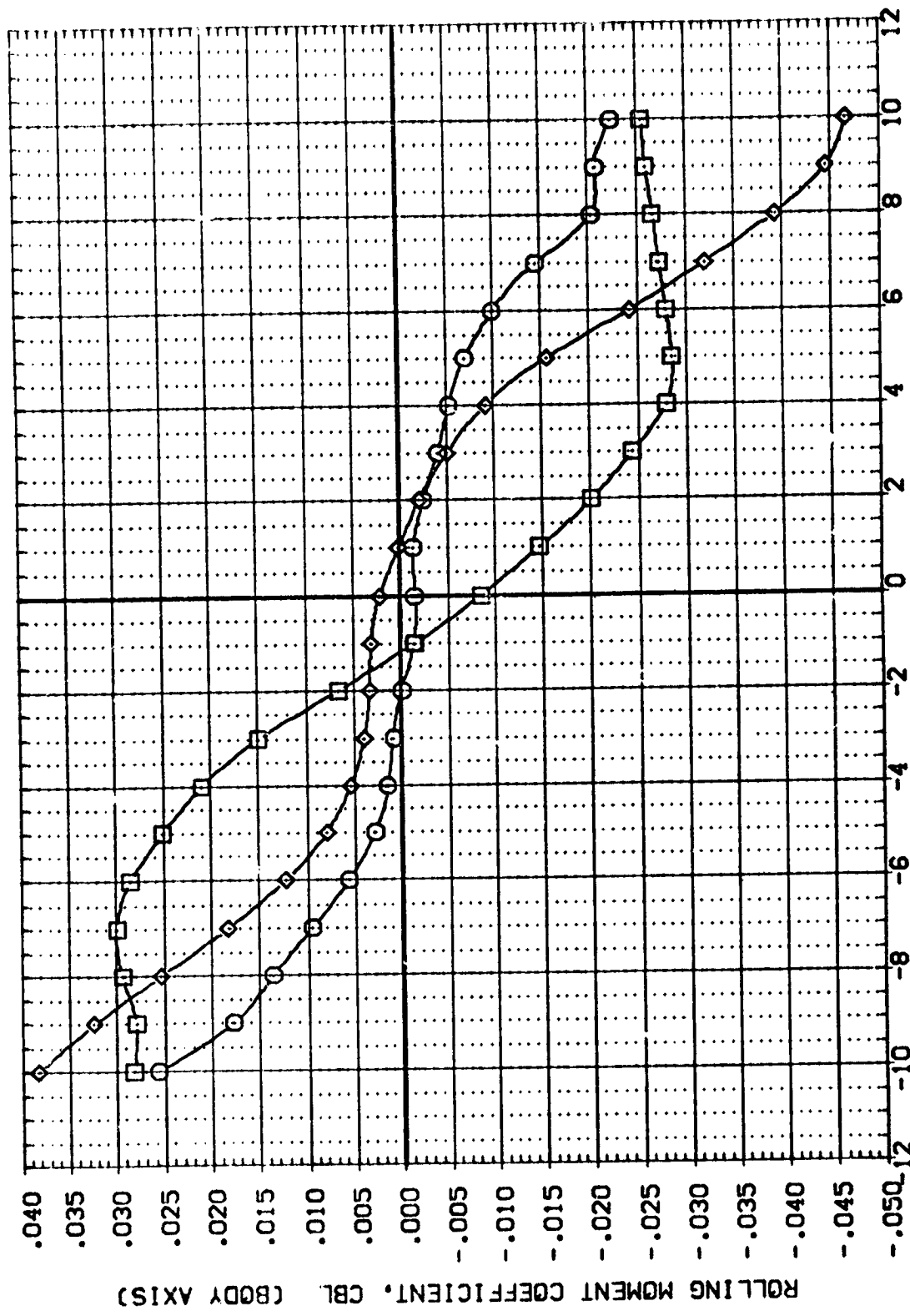
SRB POS R/VL PT-JET ALPHA REFERENCE INFORMATION
 1.100 1.400 1500.000 .000 SREF 2650 3000 50.0
 2.200 1.400 1500.000 .000 LREF 1250 3000 30.0
 3.300 1.400 1500.000 .000 BREF 1250 3000 30.0
 XREF 1250 3000 30.0
 YREF 1250 3000 30.0
 ZREF 1250 3000 30.0
 SCALE 447.0150



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRBPOS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(RTL033)	AEDC	VA-422(1A-57)	CRB/ET	V/BOTH	SRB	1.100	1.400	1500.000	.000	SREF	2690.0000	SC.FT.	
(RTL044)	AEDC	VA-422(1A-57)	CRB/ET	V/BOTH	SRB	2.200	1.400	1500.000	.000	LREF	250.3000	N.	
(RTL055)	AEDC	VA-422(1A-57)	CRB/ET	V/BOTH	SRB	3.300	1.400	1500.000	.000	BREF	1230.3000	N.	
										XMRRP	052.0000	N.	
										YMRRP	0000	N.	
										ZMRRP	447.0000	N.	
										SCALE	0.0100	N.	



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL: [RTLO33] [RTLO44] [RTLO55]

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); CRB/ET V/BOTH SRB AEDC VA-422(1A-57); CRB/ET V/BOTH SRB AEDC VA-422(1A-57); CRB/ET V/BOTH SRB

SRB POS: 1.100 2.200 3.300

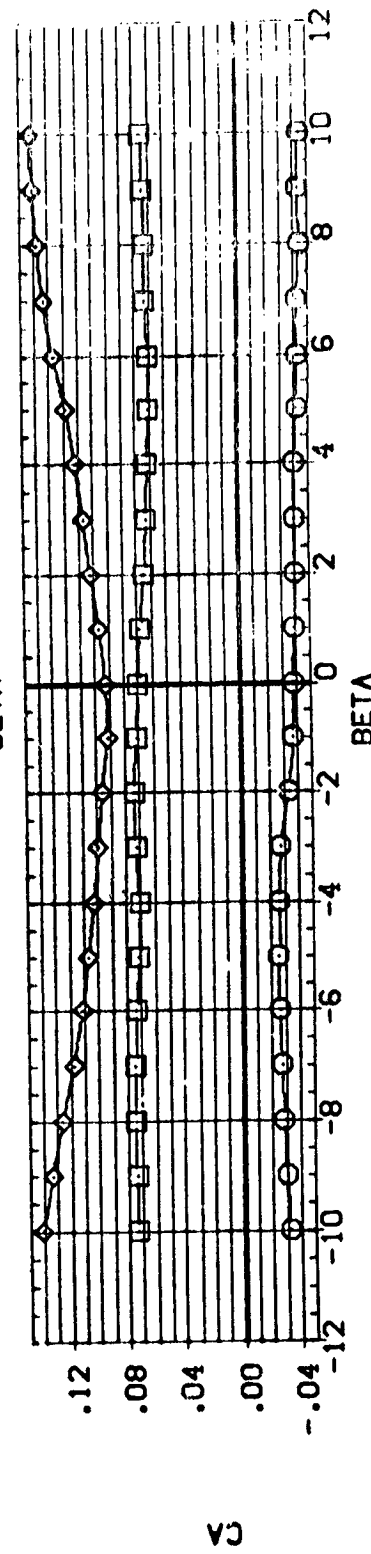
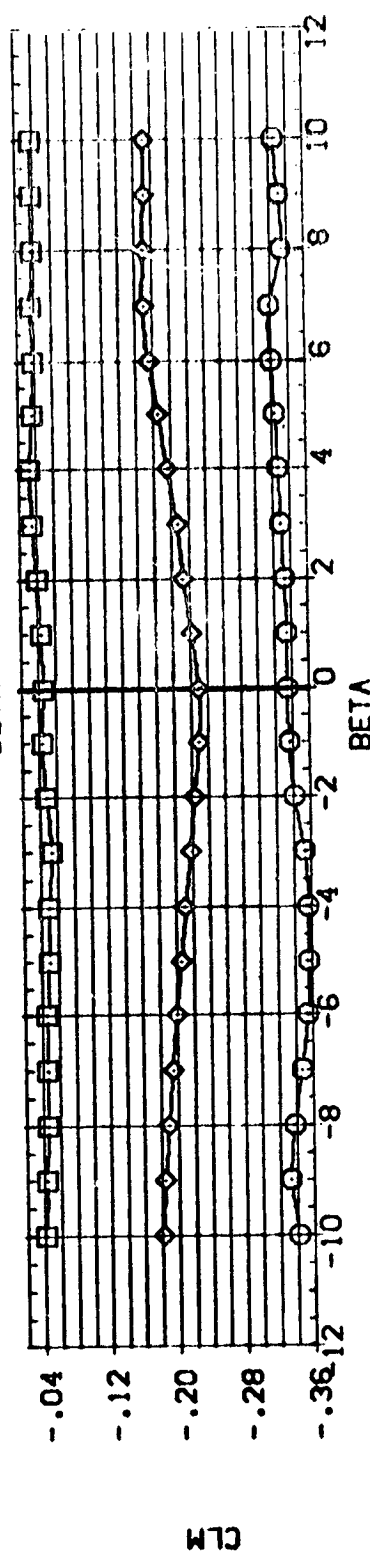
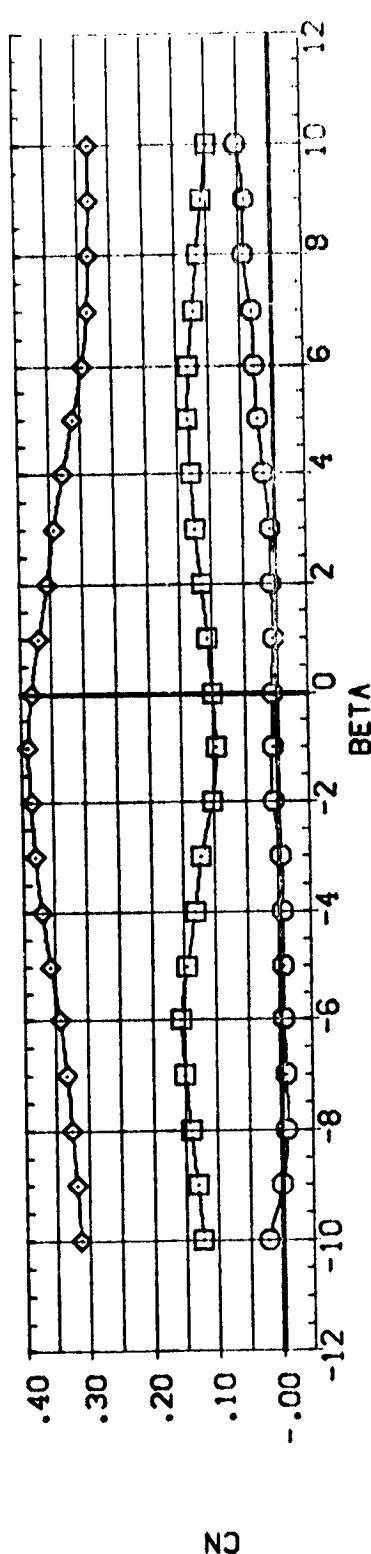
RN/L: 1.400 1500.000 1.400 1500.000 1.400 1500.000

PT-JET: .000 .000 .000

ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF 2590.0000 LREF 1250.0000 BREF 1250.0000 XREF 1250.0000 YREF 1250.0000 ZREF 447.0000 SCALE 0.100

SC.FT.: N. N. N. N. N. N. N. N.

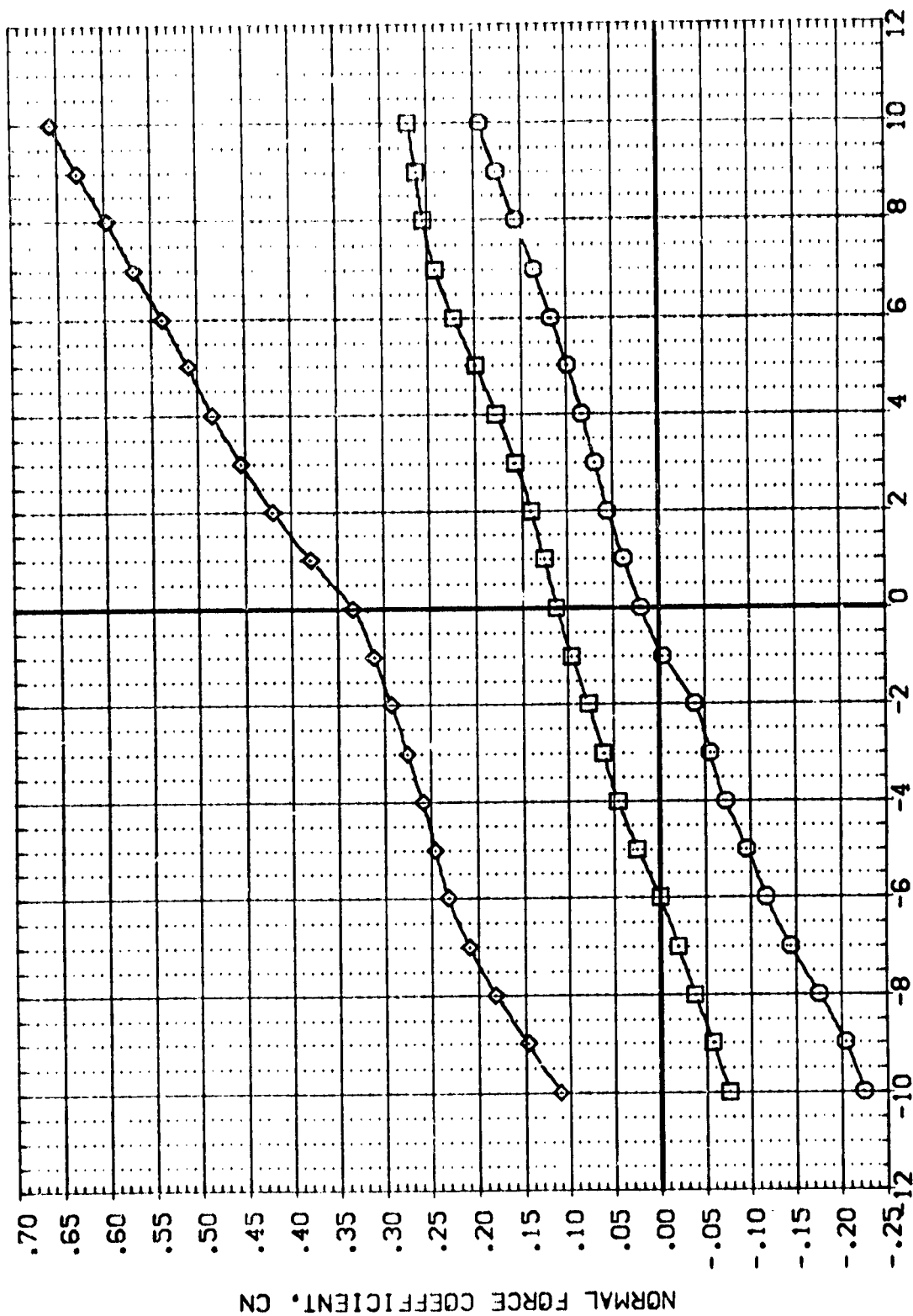


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (87-038) AEDC VA-422(1A-57); CRB/ET V/BOTH SRB
 (87-039) AEDC VA-422(1A-57); CRB/ET V/BOTH SRB
 (87-030) AEDC VA-422(1A-57); CRB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 1.100 1.760 1500.000 .000 SPEC 2650.0000 50.000
 2.200 1.760 1500.000 .000 REF 1250.3000
 3.300 1.760 1500.000 .000 SPEC 1250.3000
 V/20 V/20 V/20 V/20 V/20 V/20
 V/20 V/20 V/20 V/20 V/20 V/20
 SCALE 447.0000 10.000



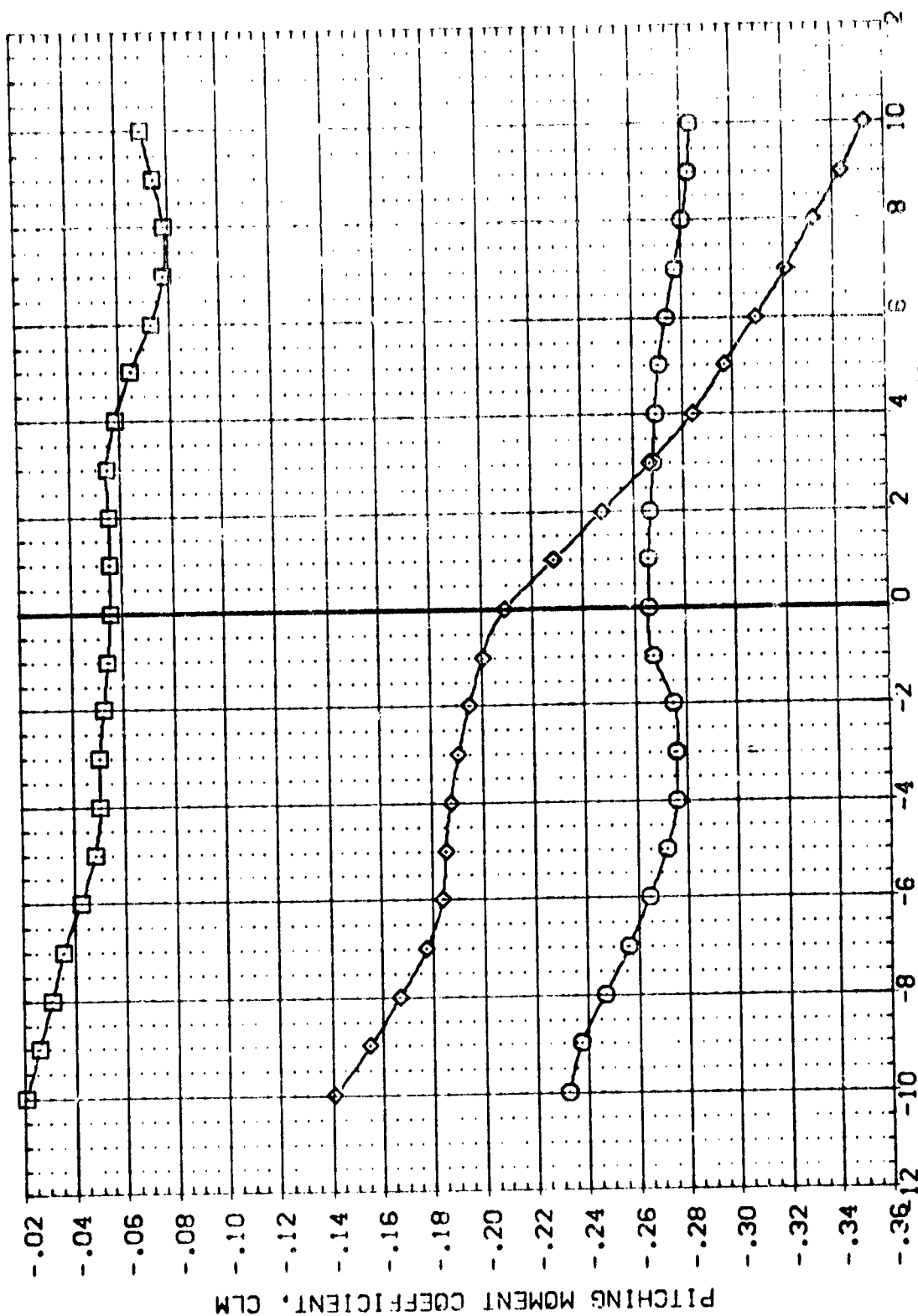
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=1500)

(A)MACH = 4.50

CONFIGURATION DESCRIPTION

WEDC VA-422(A-57). ORB/ET V/BOTH SRB
WEDC VA-422(A-57). ORB/ET V/BOTH SRB
WEDC VA-422(A-57). ORB/ET V/BOTH SRB

SRPOS	RVL	PT-ET	BETA	REFERENCE IN OPERATION	SD.FT.
1.100	1.760	1500.000	.000	SREF	2690.0000
1.200	1.760	1500.000	.000	LREF	2690.0000
2.700	1.760	1500.000	.000	BREF	2690.0000
3.300	1.760	1500.000	.000	XREF	2690.0000
				YREF	2690.0000
				ZREF	2690.0000
				SCALE	147.0000



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RM/L=1.76, PT-JET=1500)

$$(A)_{MACH} = 4.50$$

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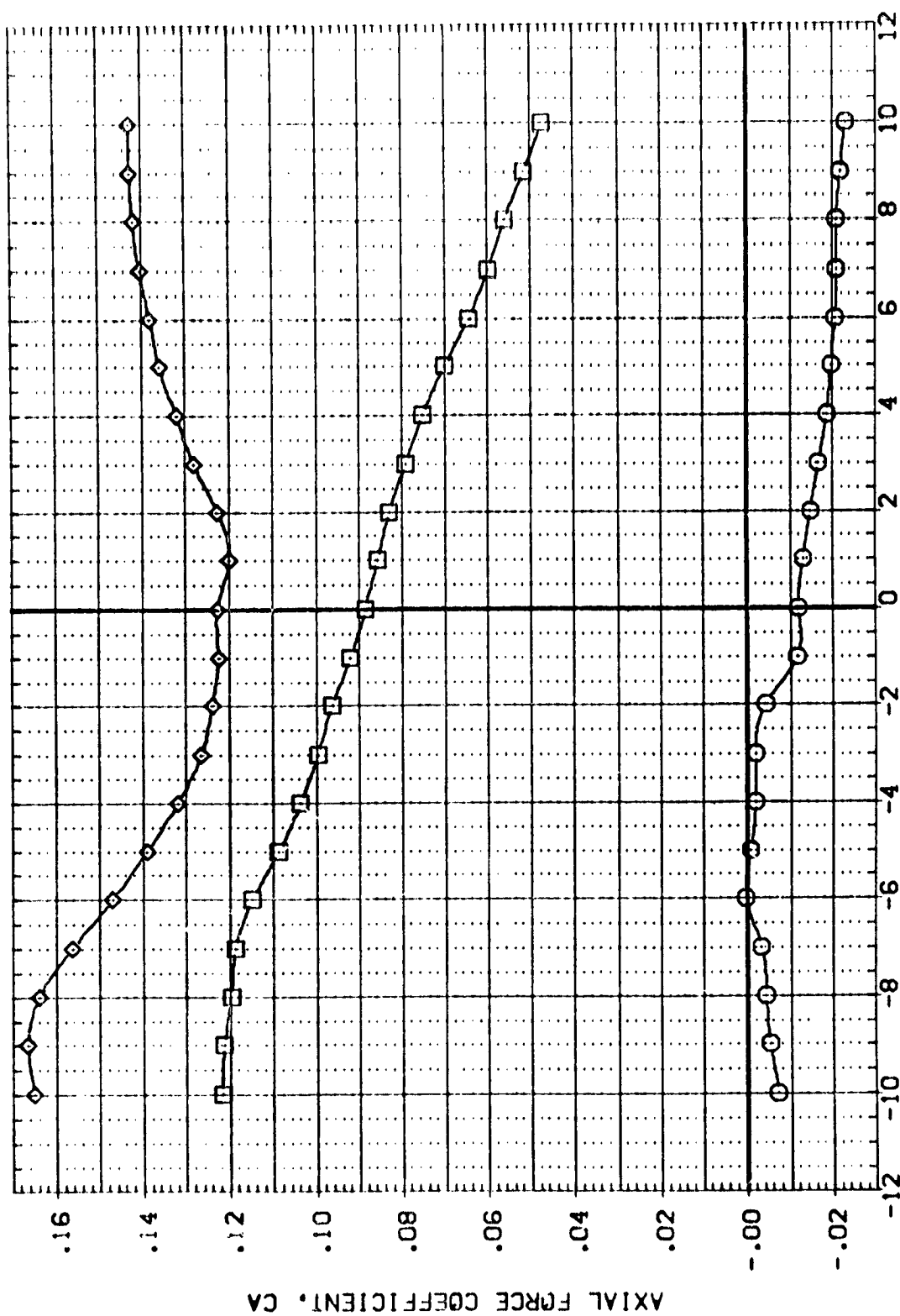
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DATA SET SYMBOL

SABPOS	RM/L	PT-JET
1.100	1.760	1500.000
2.200	1.750	1500.000
3.300	1.760	1500.000

BETA
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	REFERENCE INFORMATION	SQ. FT.	X-REF
SAFE	2500	0000	
OFF	2500	0000	
BRG	2500	0000	
VOP	2500	0000	
VOP	2500	0000	
WAL	2500	0000	



ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=1500)

(A)MACH = 4.50

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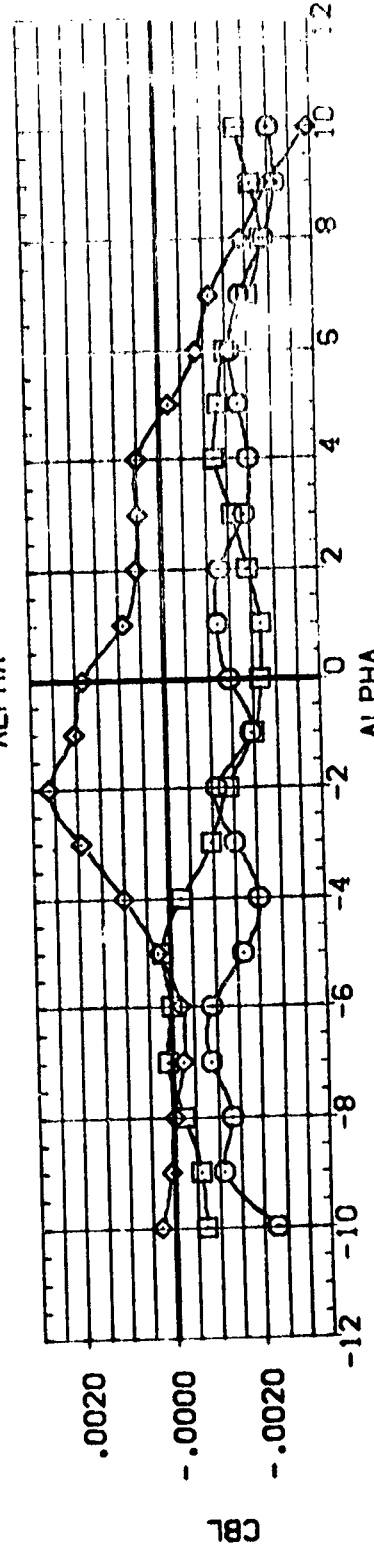
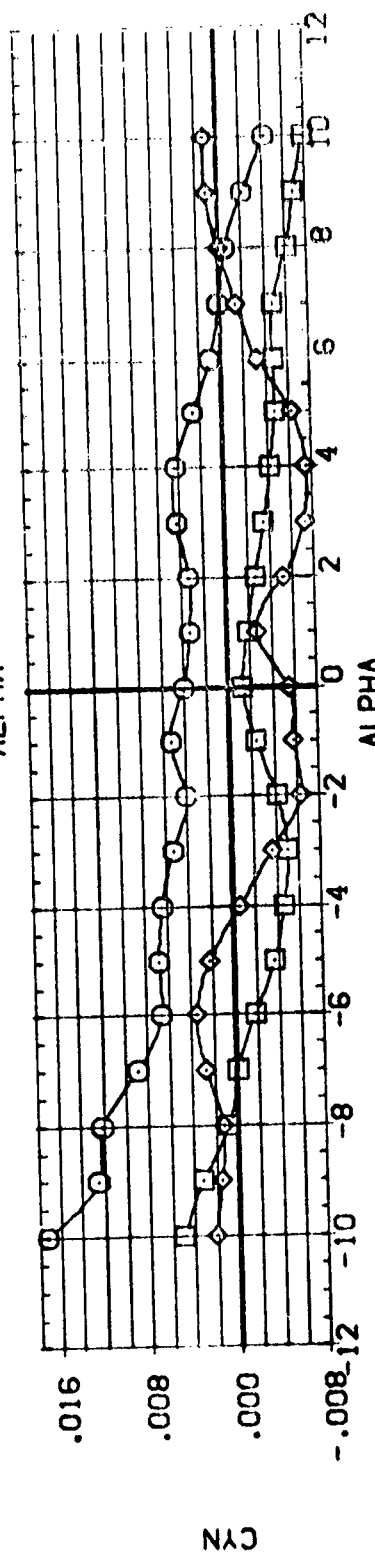
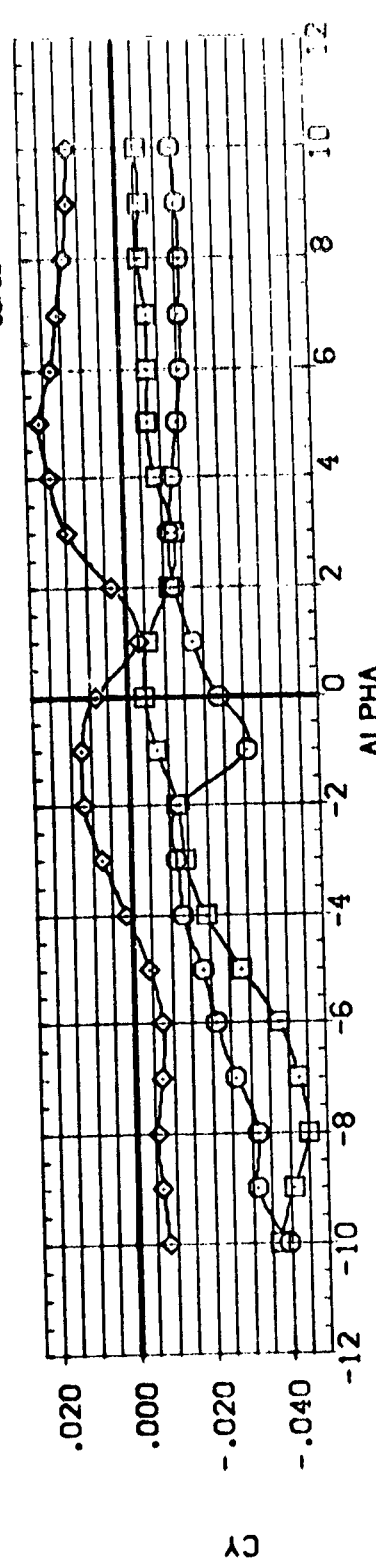
DATA SET SYMBOL
 (RTLO38)
 (RTLO49)
 (RTLO60)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57), CRB/ET V/80TH SRB
 AEDC VA-422(1A-57), CRB/ET V/80TH SRB
 AEDC VA-422(1A-57), CRB/ET V/80TH SRB

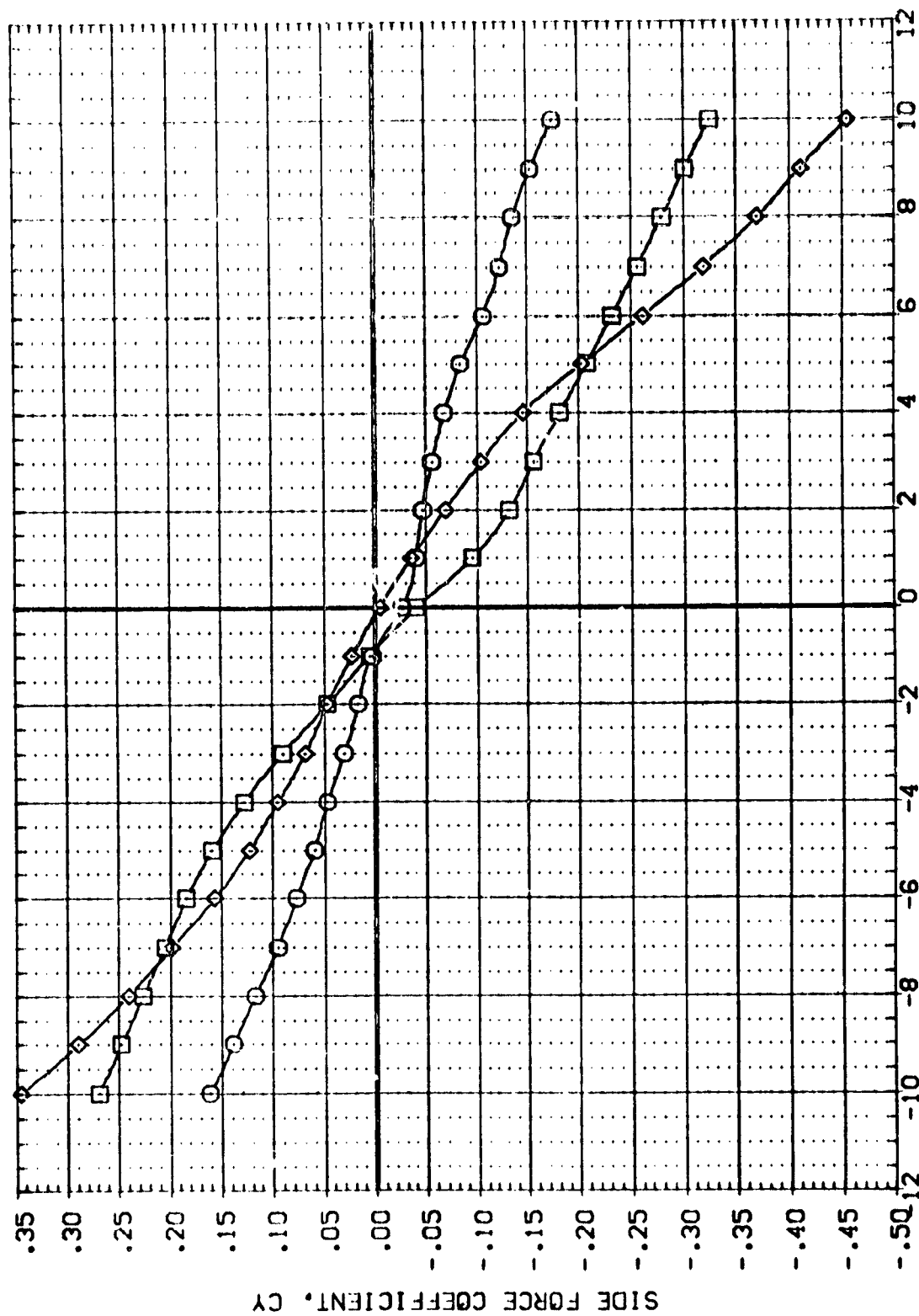
SRBPOS RNL PT-JET BETA
 1.100 1.760 1500.000
 2.200 1.760 1500.000
 3.300 1.760 1500.000

REFERENCE INFORMATION
 SREF 2630.0000
 LREF 1260.3000
 BREF 1260.3000
 XREF 1260.3000
 YREF 1260.3000
 ZREF 1260.3000
 SCALE 447.0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RNL=1.76, PT-JET=1500)
 (A) MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB/OS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RT1039)	AEDC VA-422(A-57): CRB/ET W/BOTH SRB	1.100	1.760	1500.000	.000	SREF 1500.000 SO.FT.
(RT1050)	AEDC VA-422(A-57): CRB/ET W/BOTH SRB	2.200	1.760	1500.000	.000	LREF 1500.000
(RT1061)	AEDC VA-422(A-57): CRB/ET W/BOTH SRB	3.300	1.760	1500.000	.000	BREF 1500.000
						WREF 1500.000
						ZREF 44.0000
						SCALE .0100



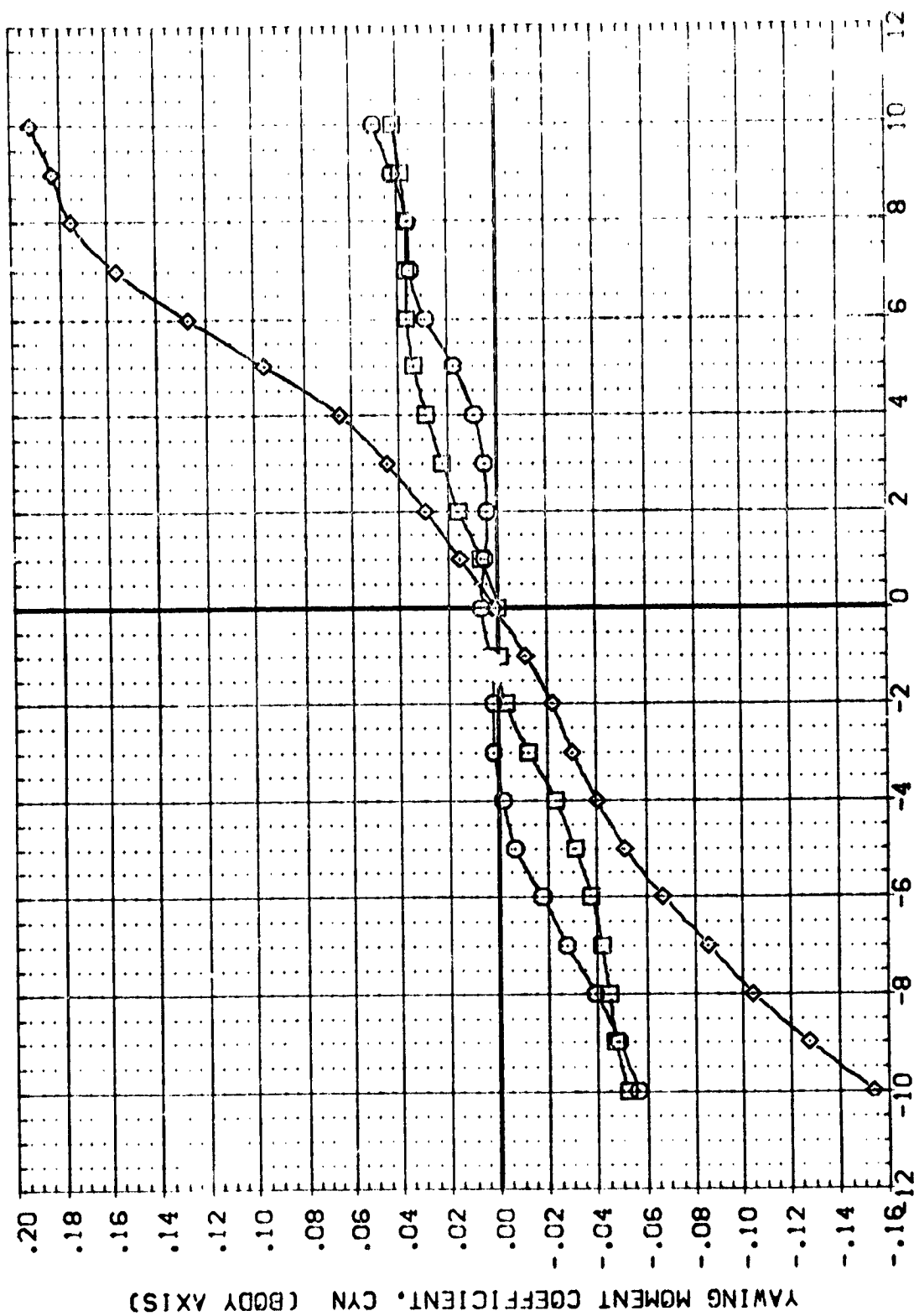
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RV/L=1.76, PT-JET=1500)

(A) MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO39) AEDC VA-422(A-57): ORB/ET V/BOTH SRB
 (RTLO39) AEDC VA-422(A-57): ORB/ET V/BOTH SRB
 (RTLO39) AEDC VA-422(A-57): ORB/ET V/BOTH SRB

SRBPOS RN/L PT-JET ALPHA
 1.100 1.760 1500.000 .000
 2.200 1.760 1500.000 .000
 3.300 1.760 1500.000 .000

REFERENCE INFORMATION
 SRBREF 2680.0000 SQ.FT.
 LREF 1230.0000 IN.
 SRBREF 1230.0000 IN.
 YREF 1230.0000 IN.
 ZREF 1230.0000 IN.
 SCALE 447.0000



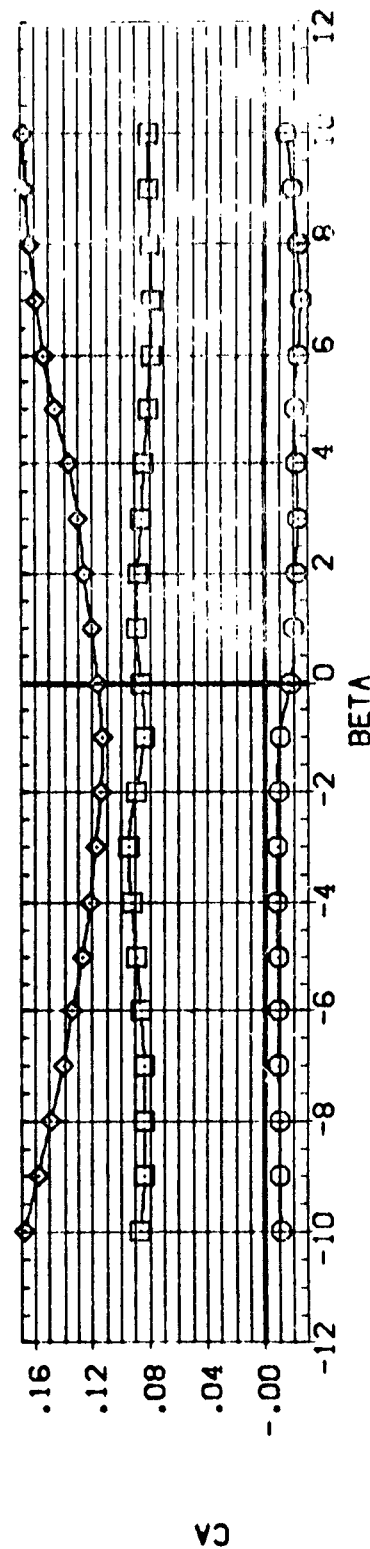
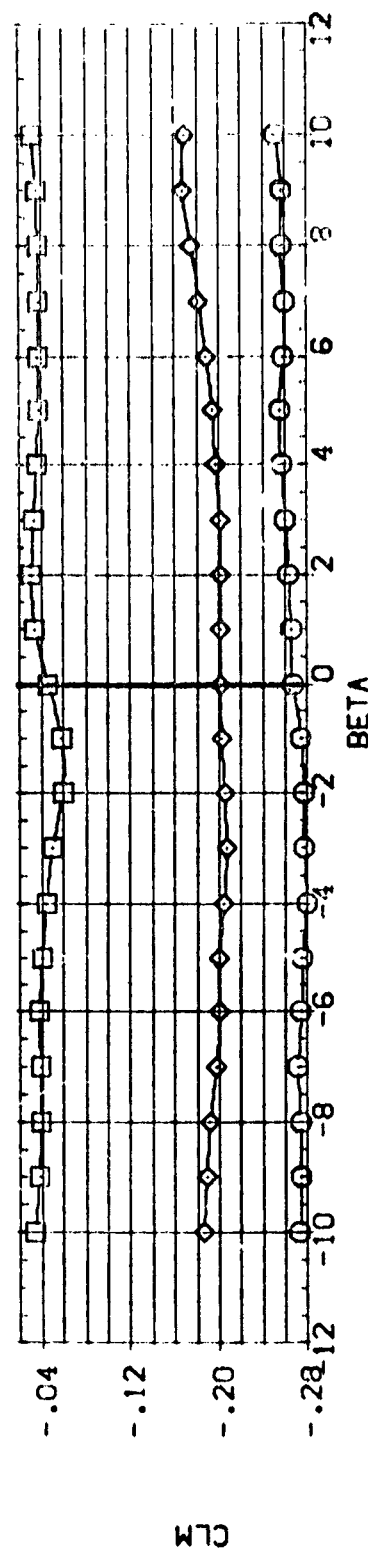
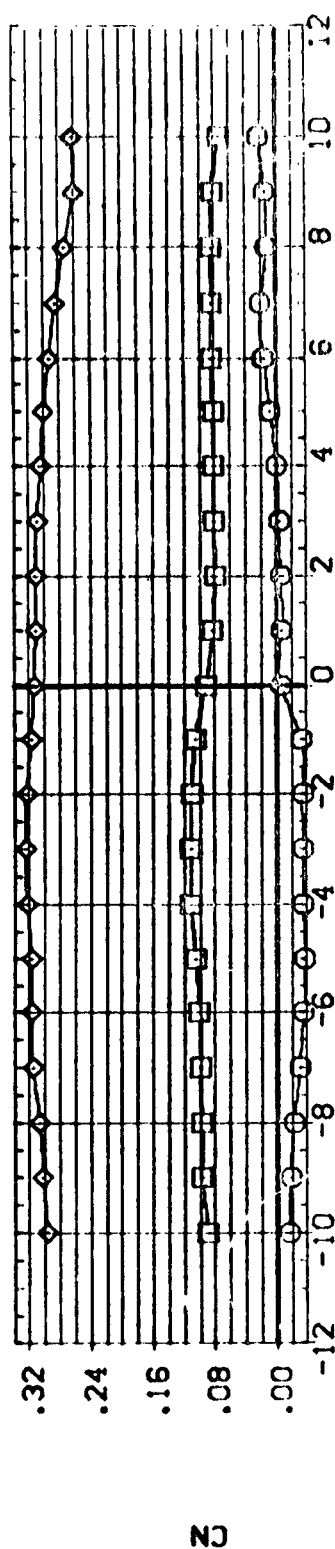
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.75, PT-JET=1500)

(A) MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLO39)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	1.100	1.760	1500.000	.000	SRF 2690.0000 SQ.FT.
(RTLO50)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	2.200	1.760	1500.000	.000	SRF 1290.3000 IN.
(RTLO51)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	3.300	1.760	1500.000	.000	SRF 1290.3000 IN.
						XREF 1292.0000 IN.
						YREF 1292.0000 IN.
						ZREF 447.0000 IN.
						SCALE .0100



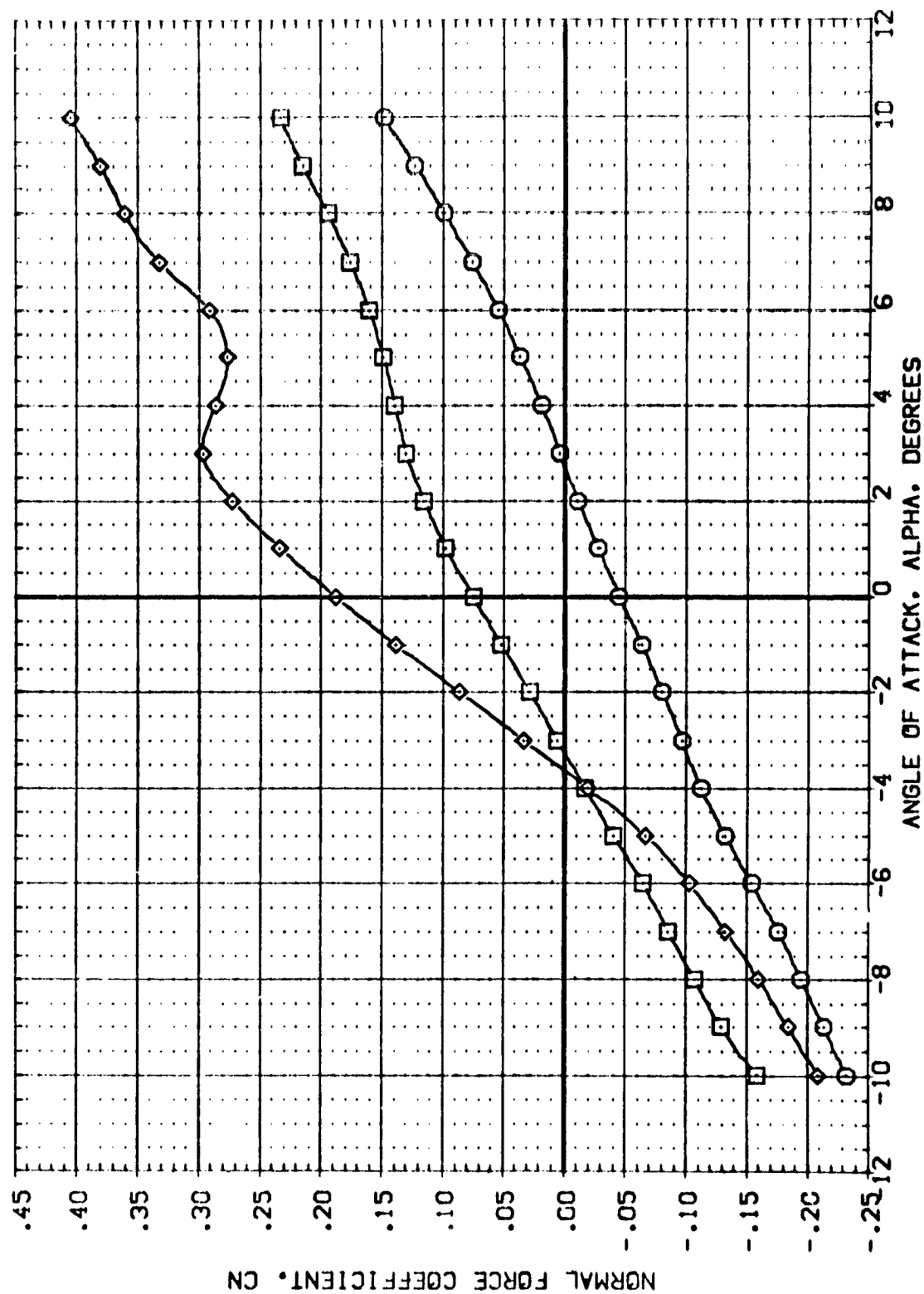
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	
(RT_036)	AEDC VA-422(1A-57);	ORB/ET V/80TH SRB
(RT_047)	AEDC VA-422(1A-57);	ORB/ET V/80TH SRB
(RT_058)	AEDC VA-422(1A-57);	ORB/ET V/80TH SRB

SRSP05	RN/L	PT-JET	BETA
1.100	1.760	750.000	.000
2.200	1.760	750.000	.000
3.300	1.760	750.000	.000

SCALE	REFERENCE	INFORMATION
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67	0000	67
68	0000	68
69	0000	69
70	0000	70
71	0000	71
72	0000	72
73	0000	73
74	0000	74
75	0000	75
76	0000	76
77	0000	77
78	0000	78
79	0000	79
80	0000	80
81	0000	81
82	0000	82
83	0000	83
84	0000	84
85	0000	85
86	0000	86
87	0000	87
88	0000	88
89	0000	89
90	0000	90
91	0000	91
92	0000	92
93	0000	93
94	0000	94
95	0000	95
96	0000	96
97	0000	97
98	0000	98
99	0000	99
100	0000	100



DATA SET SYMBOL

(R)LO36;
(R)LO47;
(R)LO58

CONFIGURATION DESCRIPTION
AEDC VA-422(A-57), ORB/ET V/BOTH SRB
AEDC VA-422(A-57), ORB/ET V/BOTH SRB
AEDC VA-422(A-57), ORB/ET V/BOTH SRB

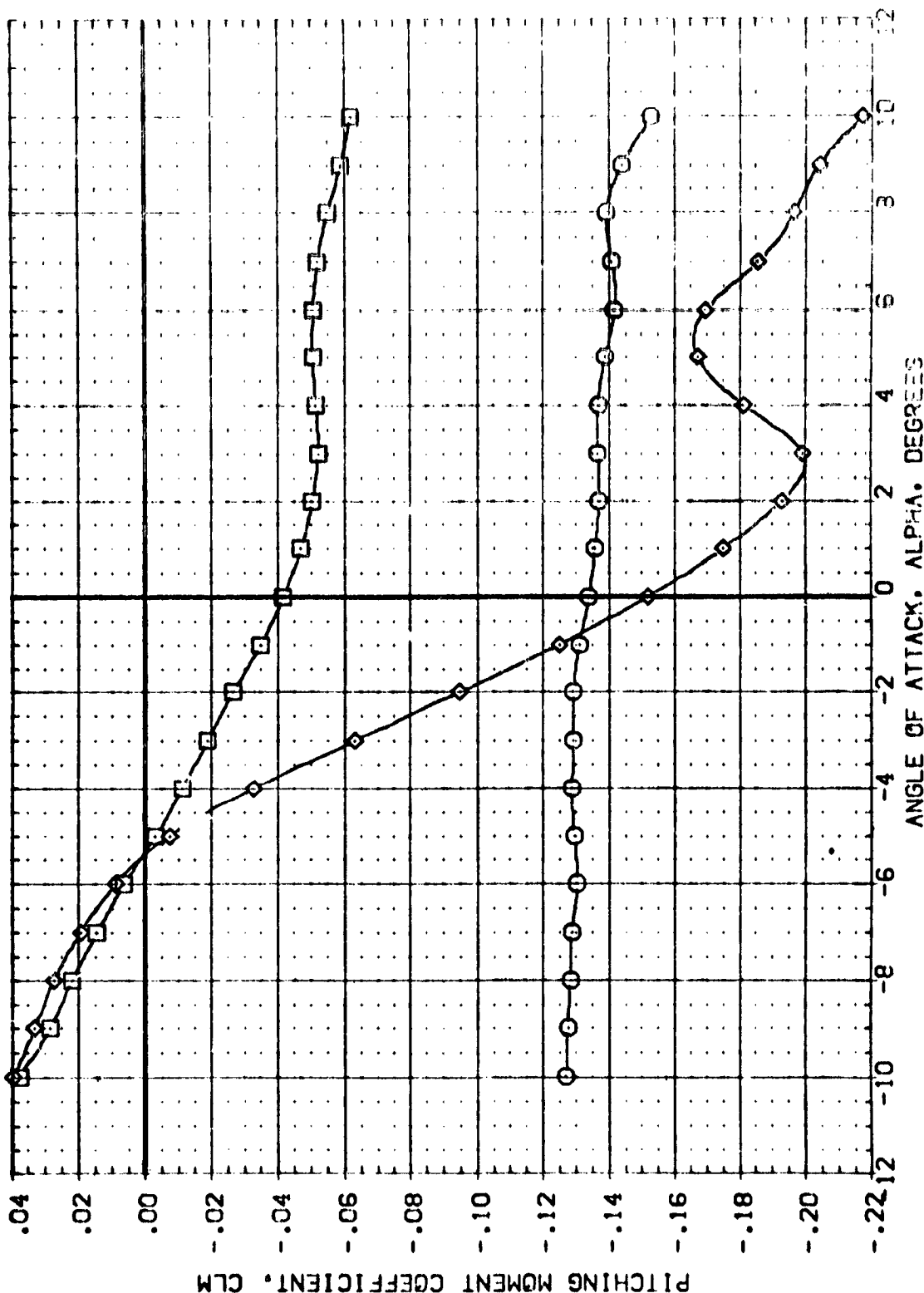
SRB POS
1.100
2.200
3.300

RVL
1.760
1.760
1.760

PT-JET
750.000
750.000
750.000

BETA
.000
.000
.000

REFERENCE INFORMATION
SRB 2680 0000 SQ.FT.
LRF 1200 3000
SRB 1200 3000
XREF 1252 3000
VREF 1200 3000
ZREF 447 3000
SCALE

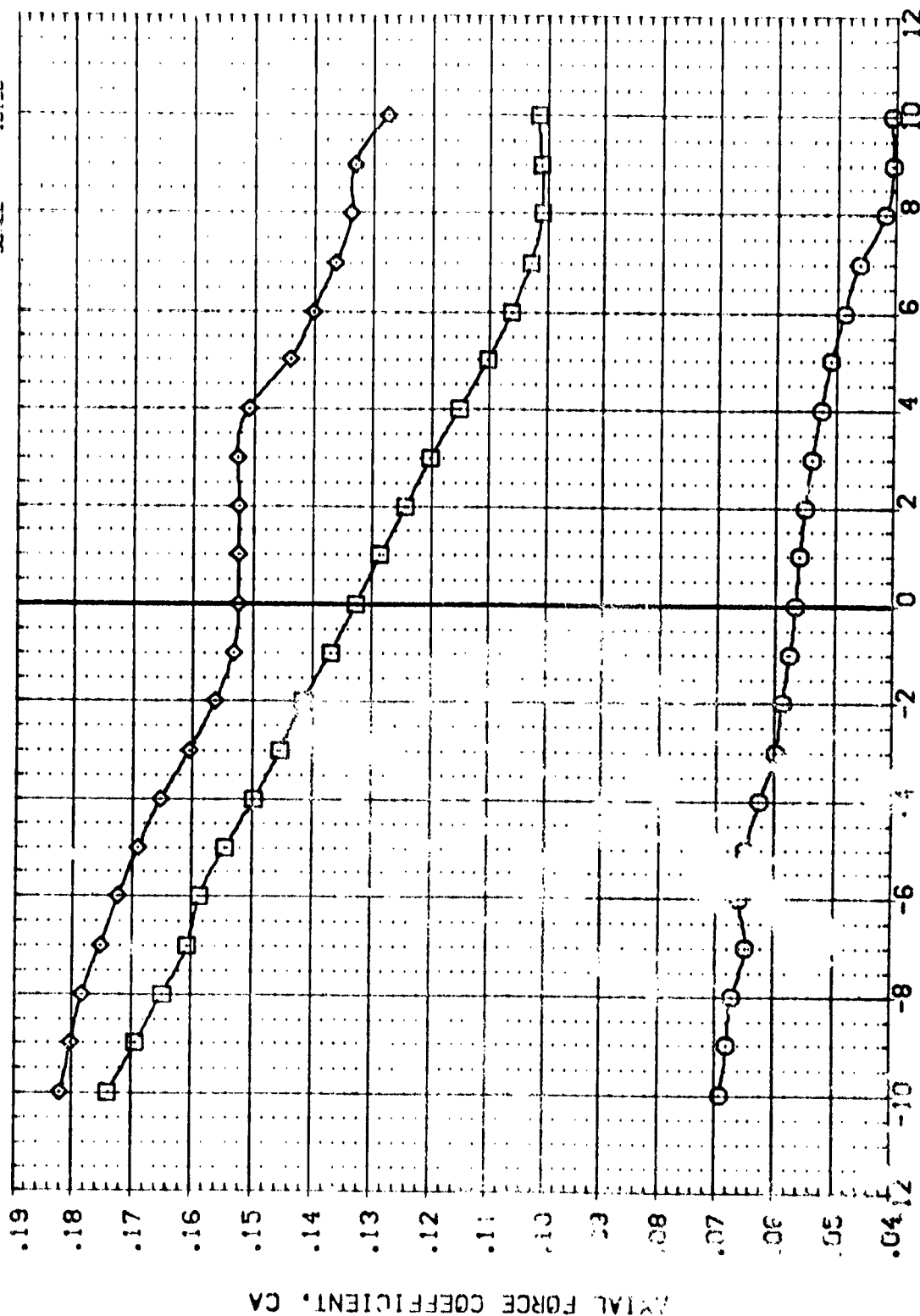


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RVL=1.76, P-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PTLO36) AEDC VA-422(A-57); SRB/ET V/BOTH SRB
 (PT-C41) AEDC VA-422(A-57); SRB/ET V/BOTH SRB
 (PT-C58) AEDC VA-422(A-57); SRB/ET V/BOTH SRB

SRB POS RV/L PT-JET BETA REFERENCE INFORMATION
 1.100 1.760 750.000 2500 2000 50.5
 2.200 1.760 750.000 2500 2000 50.5
 3.300 1.760 750.000 2500 2000 50.5
 SCALE 447.0000



EFFECT OF SYMMETRICAL SRB POSITION ON O/ET CHARACTER. (RV/L=1.76, PT-JET=750)
 (MACH = 4.50)

DATA SET SYMBOL: (RTLO36) (RTLO47) (RTLO59)

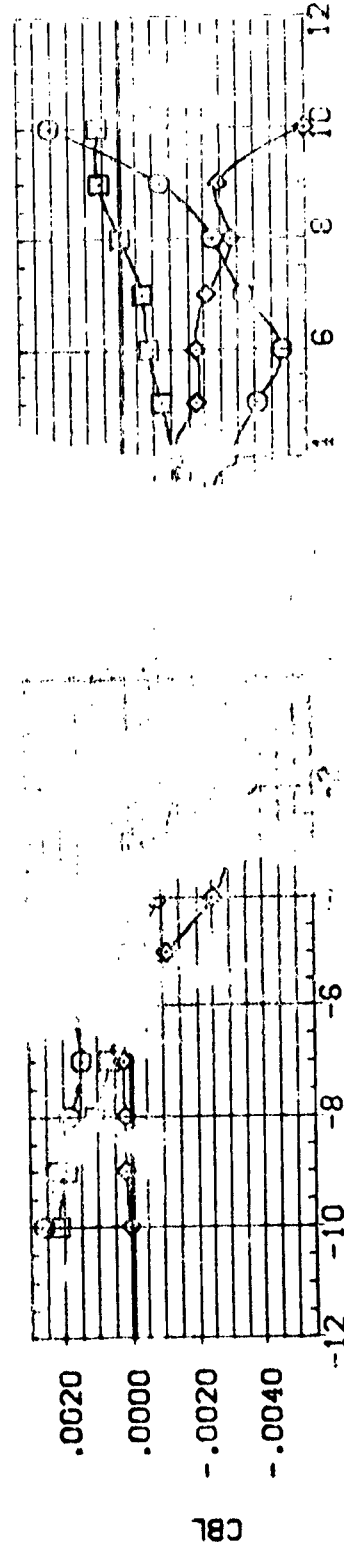
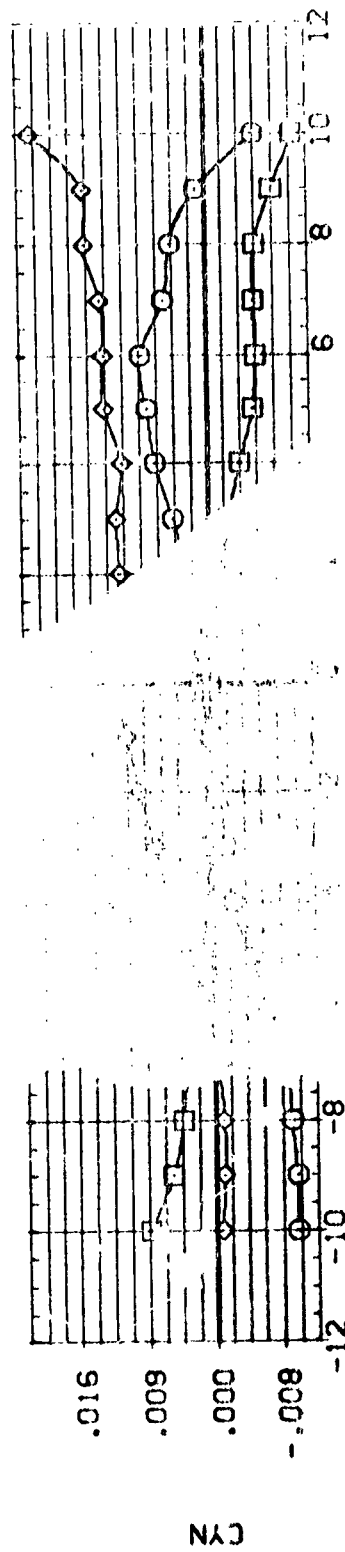
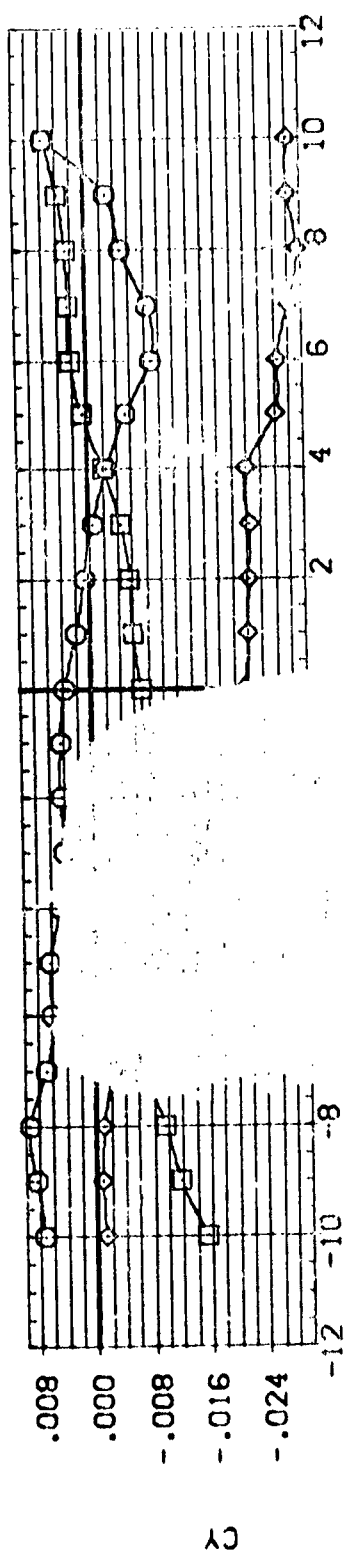
CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRB POS: 1.100 2.200 3.300

PT-JET: 750.000 750.000 750.000

BETA: .000 .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ. FT. LREF 1790.3000 IN. XREF 1790.3000 IN. YREF 1790.3000 IN. ZREF 1790.3000 IN. SCALE 447.0000



EFFECT OF SYMMETRICAL SRB SEPARATION ON CBL, CYN, CY

(A) MACH = 4.50

RN/L=1.76, P-JET=7500

PAGE 32

DATA SET SYMBOL
 (RTLO37)
 (RTLO48)
 (RTLO59)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57); CRB/ET V/80TH SRB
 AEDC VA-422(1A-57); CRB/ET V/80TH SRB
 AEDC VA-422(1A-57); CRB/ET V/80TH SRB

SREPOS
 1.175
 2.200
 3.300

RN/L

1.760
 1.760
 1.760

PT-JET

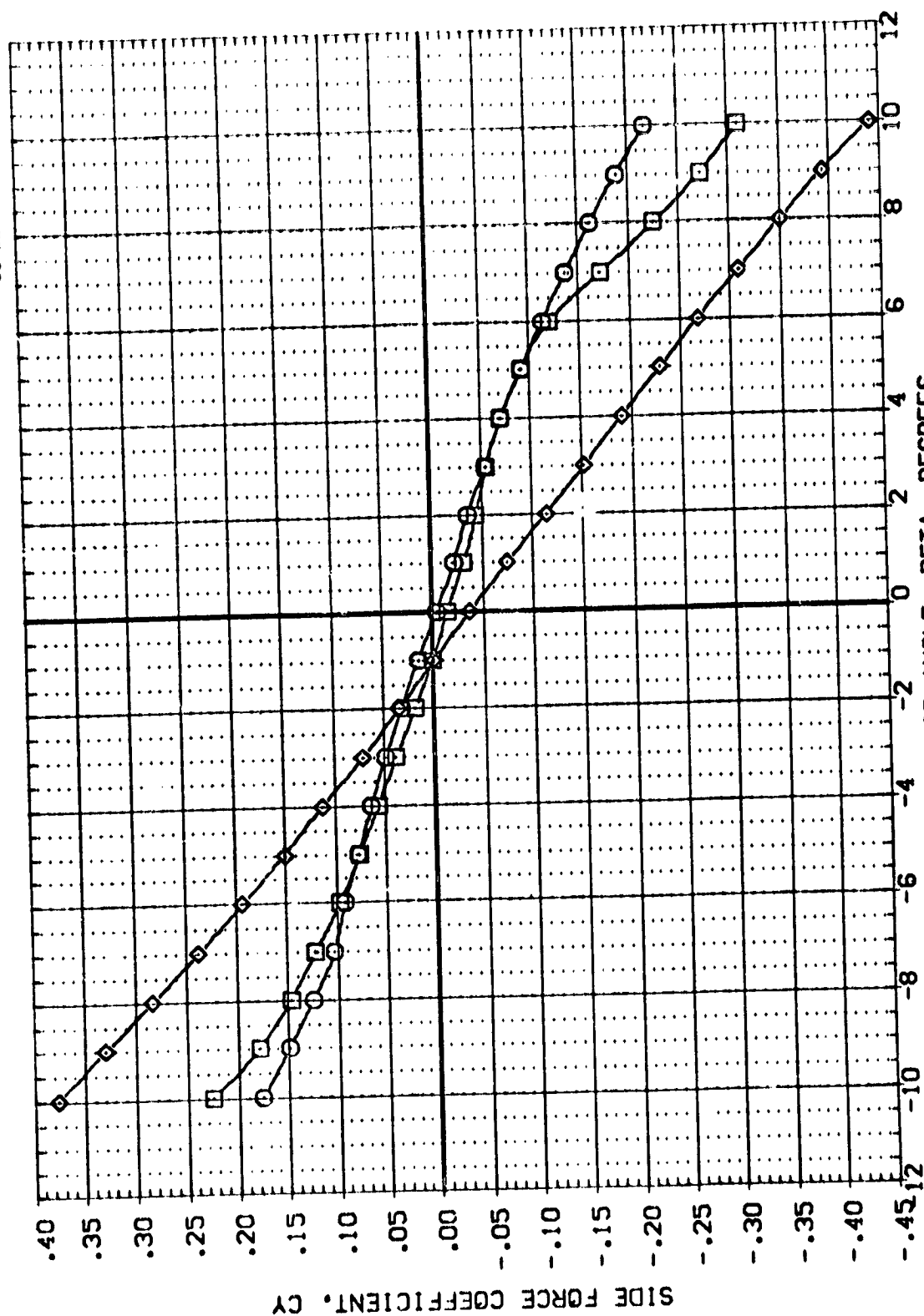
750.000
 750.000
 750.000

ALPHA

.000
 .000
 .000

REFERENCE INFORMATION
 SREF
 LREF
 BREF
 YREF
 ZREF
 SCALE

2.300
 12.000
 12.000
 12.000
 12.000
 447.000
 0.000



SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

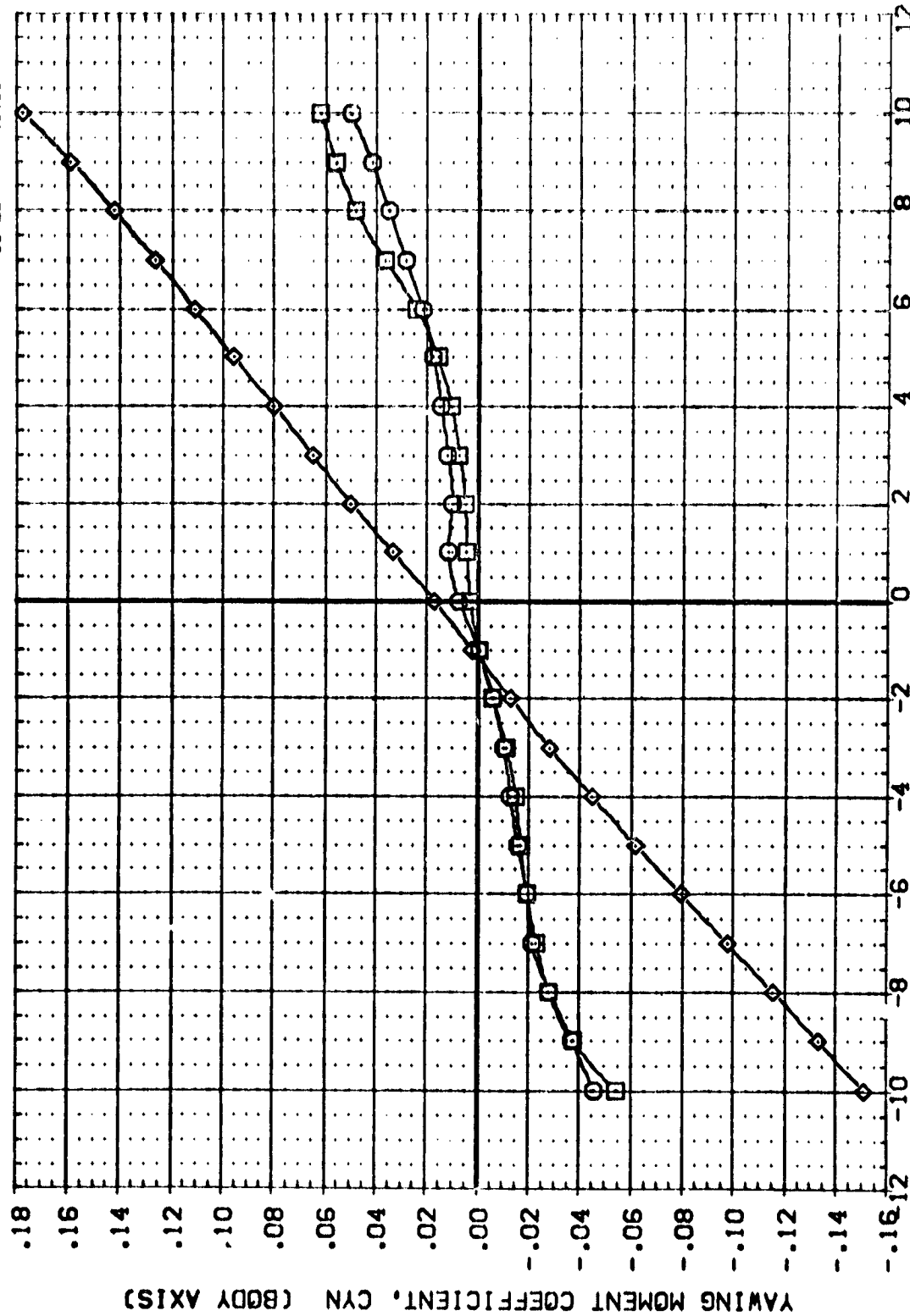
(RTL037) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 (RTL048) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 (RTL059) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRBPOS RVL PT-JET ALPHA

1.100 1.760 750.000 .000
 2.200 1.760 750.000 .000
 3.300 1.760 750.000 .000

REFERENCE INFORMATION

SREF 2590.0000 SQ.FT.
 LREF 1290.3000 IN.
 BREF 1290.3000 IN.
 XREF 1052.0000 IN.
 YREF 447.0000 IN.
 ZREF 447.0000 IN.
 SCALE .0100

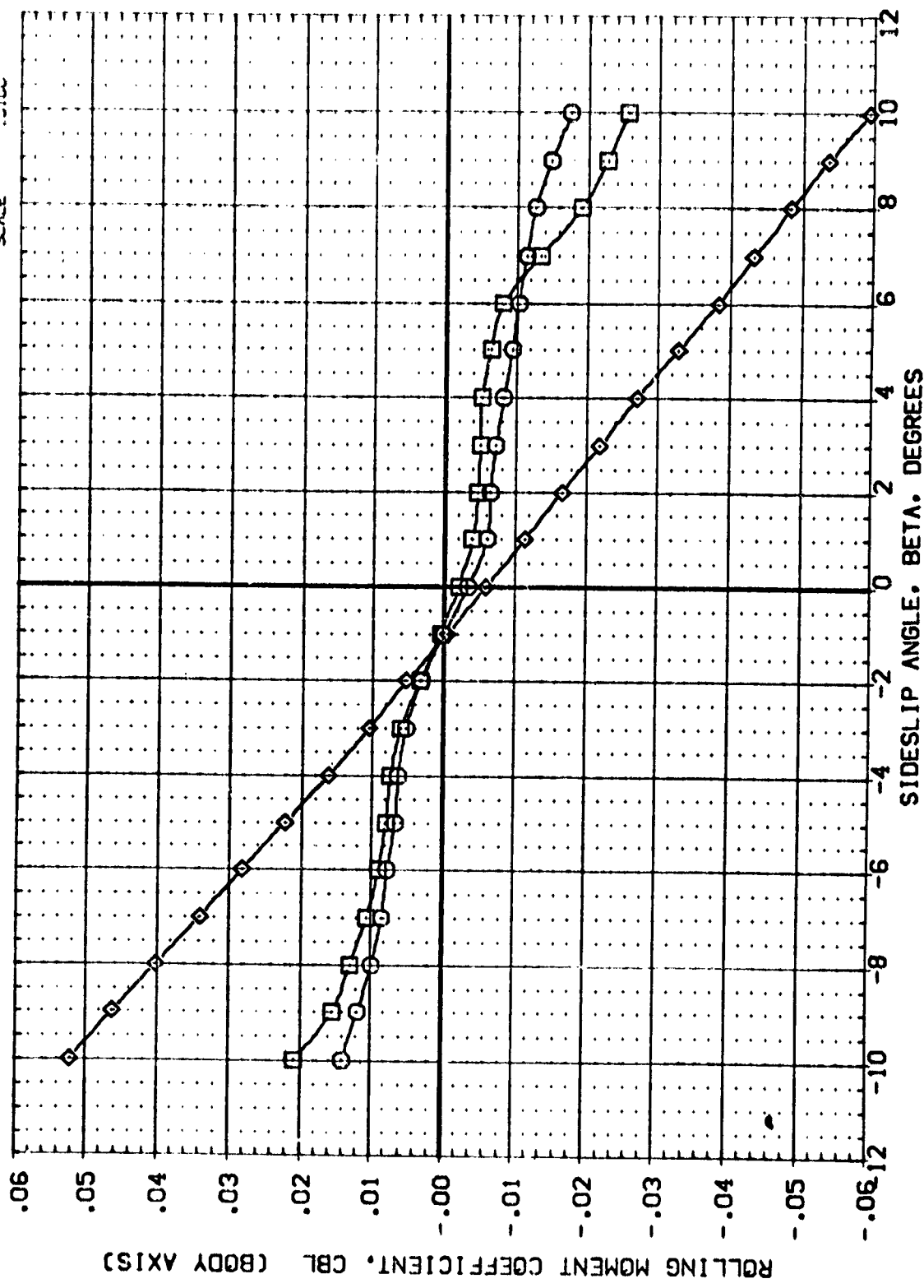


SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RN/L		PT-JET		ALPHA		REFERENCE INFORMATION	
[RTL037]	□	AEDC VA-422(A-57)	CRB/ET V/80TH SRB	1.100	1.760	750.000	.000	SREF	2950.0000	50.00			
[RTL048]	○	AEDC VA-422(A-57)	CRB/ET V/80TH SRB	2.200	1.760	750.000	.000	LREF	1250.0000	10.00			
[RTL059]	◇	AEDC VA-422(A-57)	CRB/ET V/80TH SRB	3.300	1.760	750.000	.000	BREF	1250.0000	10.00			
								XREF	1052.0000	10.00			
								YREF	447.0000	10.00			
								ZREF	447.0000	10.00			
								SCALE	1.0000	10.00			



EFFECT OF SYMMETRICAL SRB SEPARATION ON $\dot{\theta}/\dot{E}$ CHARACTER. (RN/L=1.76, PT-JET=750)
 (A)MACH = 4.50

DATA SET SYMBOLS: (RTLO37), (RTLO48), (RTLO59)

CONFIGURATION DESCRIPTION:
 AEDC VA-422(A-57); ORB/ET W/80TH SRB
 AEDC VA-422(A-57); ORB/ET W/80TH SRB
 AEDC VA-422(A-57); ORB/ET W/80TH SRB

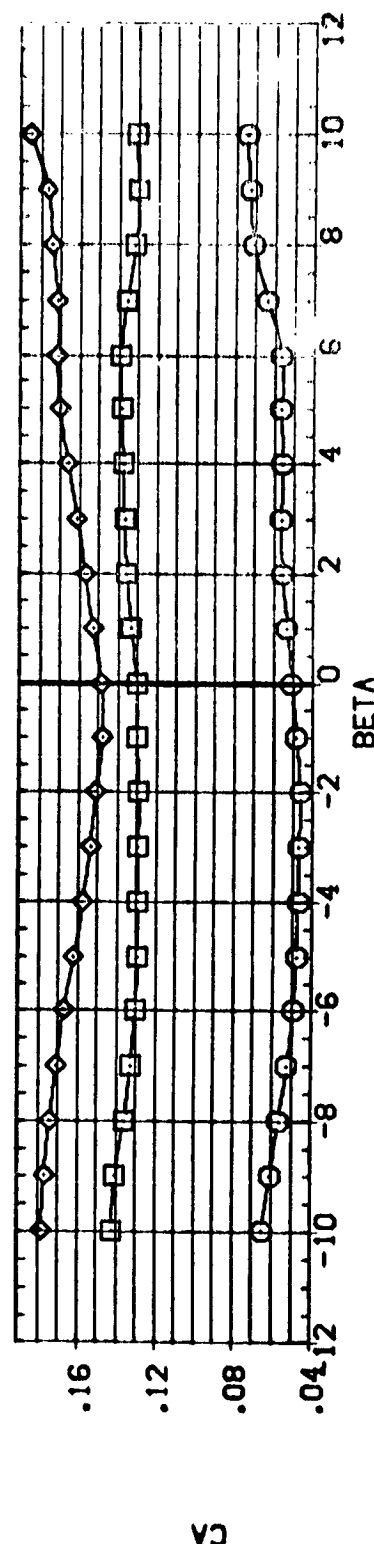
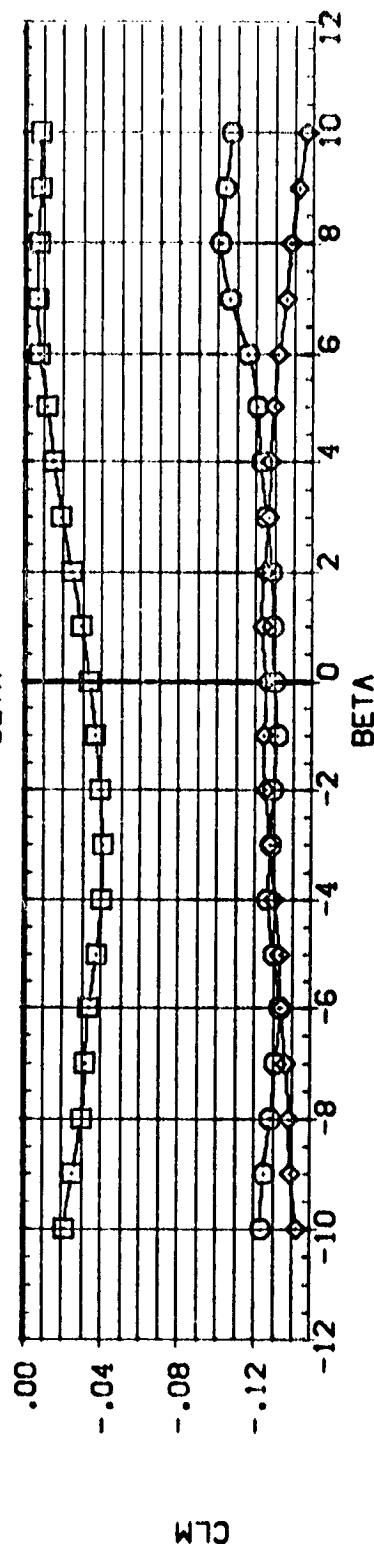
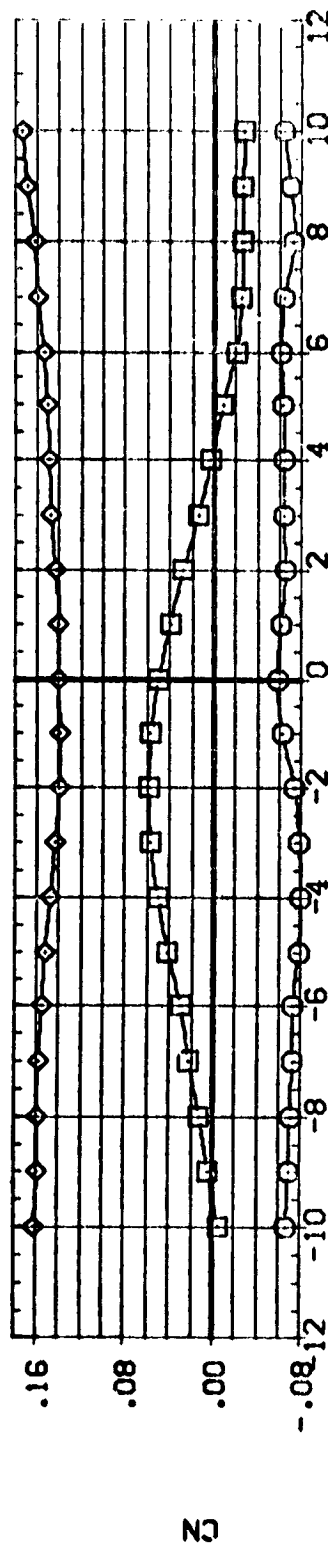
SRB POS: 1.100, 2.200, 3.300

RN/L: 1.760, 1.760, 1.760

PT-JET: 750.000, 750.000, 750.000

ALPHA: .000, .000, .000

REFERENCE: 2650.000, 2650.000, 2650.000
 LREF: 2650.000, 2650.000, 2650.000
 XREF: 2650.000, 2650.000, 2650.000
 YREF: 2650.000, 2650.000, 2650.000
 ZREF: 2650.000, 2650.000, 2650.000
 SCALE: 447.000, 447.000, 447.000



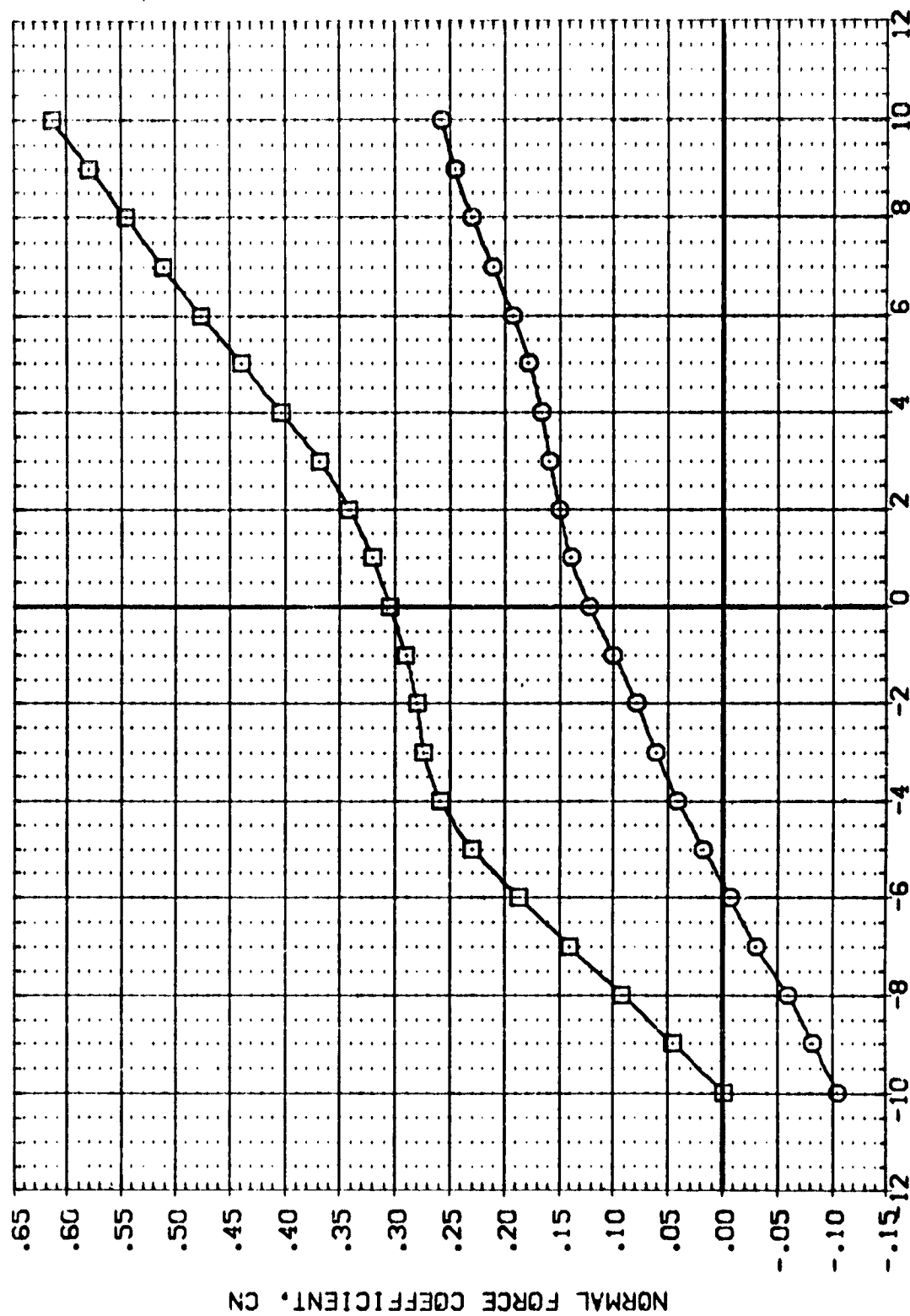
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLOS1) AEDC VA-422(1A-57), CRB/ET V/BCTH SRB
 (RTLOS2) AEDC VA-422(1A-57), CRB/ET V/BCTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 2.200 2.080 1500.000 .000 SREF 2690.0000 SQ.FT.
 3.300 2.080 1500.000 .000 LREF 1290.3000 IN.
 XMRP 1290.3000 IN. X
 YMRP 1290.3000 IN. Y
 ZMRP 1290.3000 IN. Z
 SCALE 447.0000



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/E CHARACTER. (RN/L=2.08)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLOS1)
(MTLOS2)

CONFIGURATION DESCRIPTION

AECC VA-422(1A-57), ORB/ET V/BOTH SRB
AECC VA-422(1A-57), ORB/ET V/BOTH SRB

SRB POS 2.200
3.300

RV/L

PT-JET

BETA

SREF

LREF

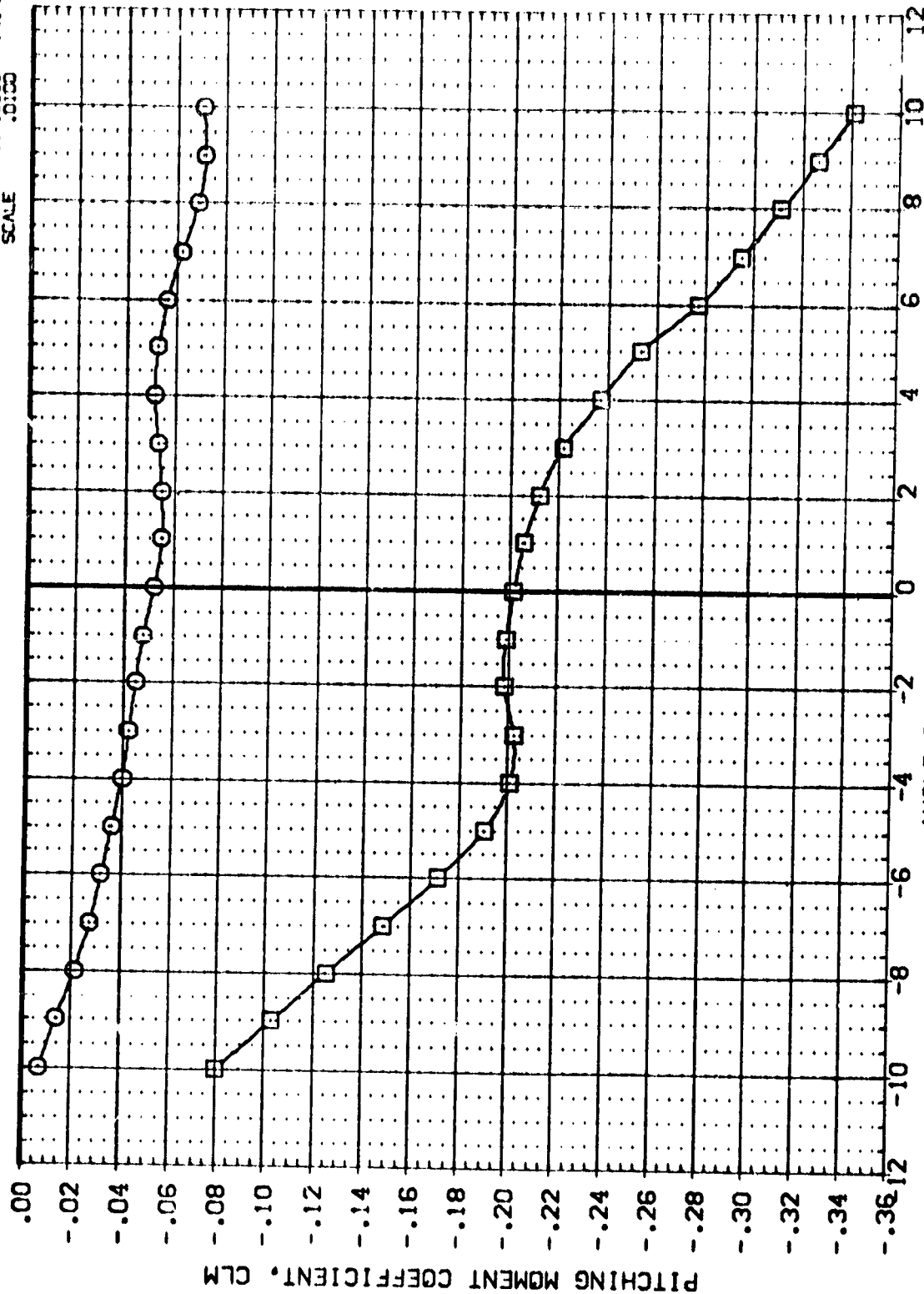
XREF

YREF

ZREF

SCALE

REFERENCE INFORMATION
2650.0000 SQ.FT.
1250.3000 IN.
1250.3000 IN.
1052.0000 IN.
447.3000 IN.
0.150



ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON O/VET CHARACTER. (RV/L=2.08)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO51) (RTLO52)

CONFIGURATION DESCRIPTION: AEDC VA-422(A-S7); ORB/ET V/BOTH SRB AEDC VA-422(A-S7); ORB/ET V/BOTH SRB

SRB POS: 2.200 3.300

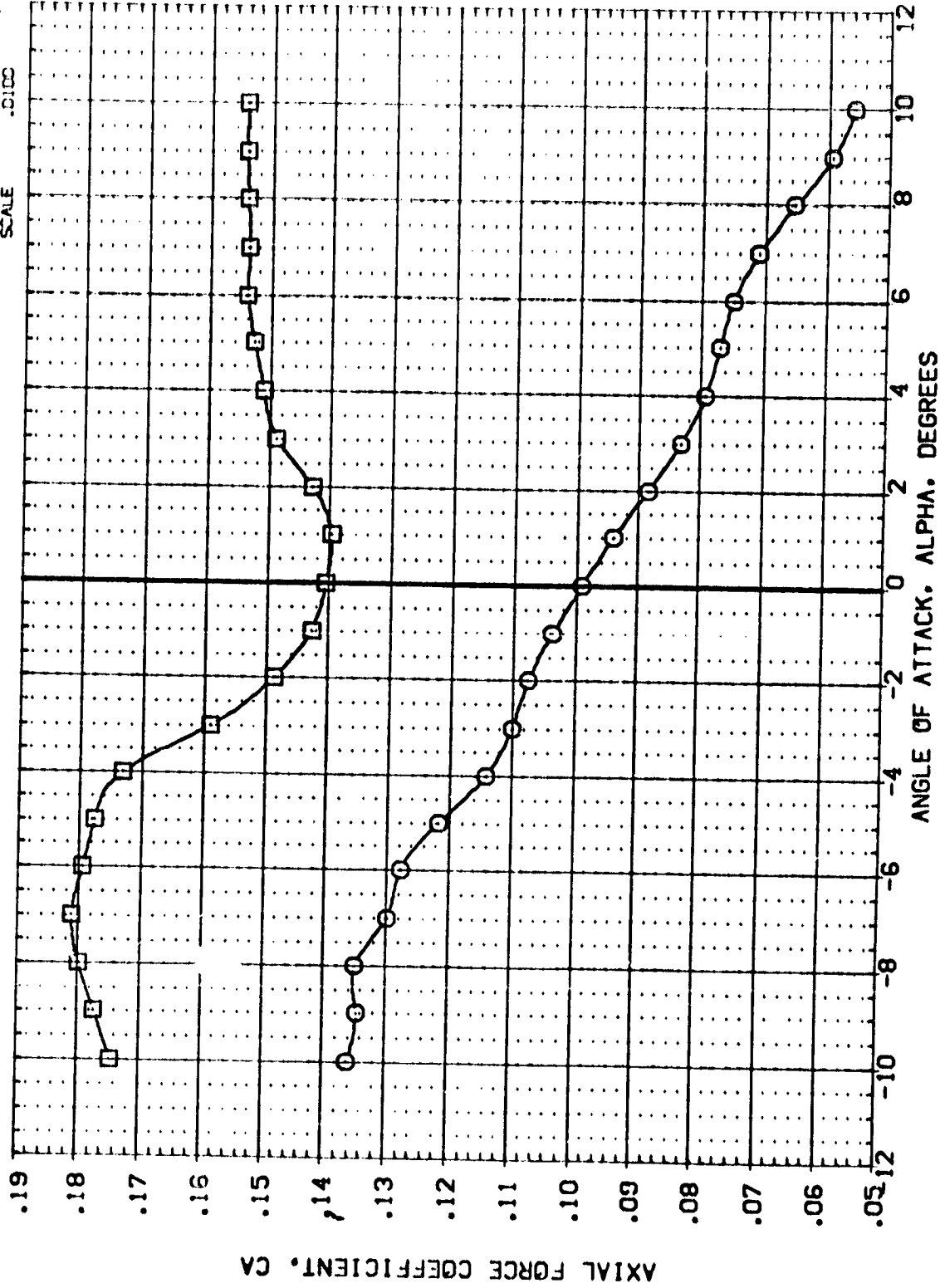
RN/L: 2.080 1500.000 2.080 1500.000

PT-JET: .000 .000

BETA: .000 .000

REFERENCE INFORMATION:

	SRB	ET	SRB	ET
SREF	2690.0000	50.000	2690.0000	50.000
LREF	1290.0000	25.000	1290.0000	25.000
BREF	1290.0000	25.000	1290.0000	25.000
YMRP	1052.0000	20.000	1052.0000	20.000
ZMRP	447.0000	10.000	447.0000	10.000
SCALE	.0100		.0100	



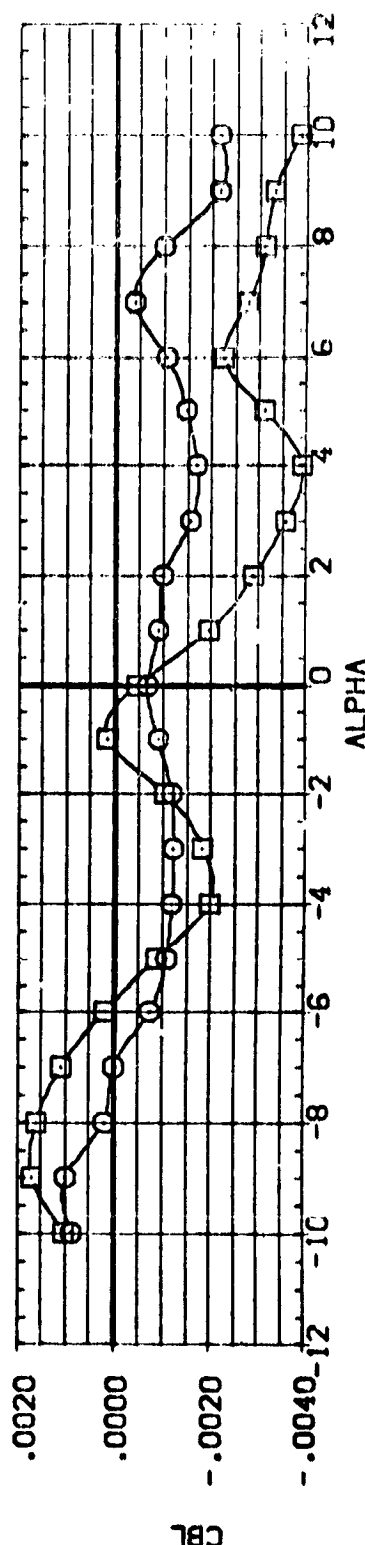
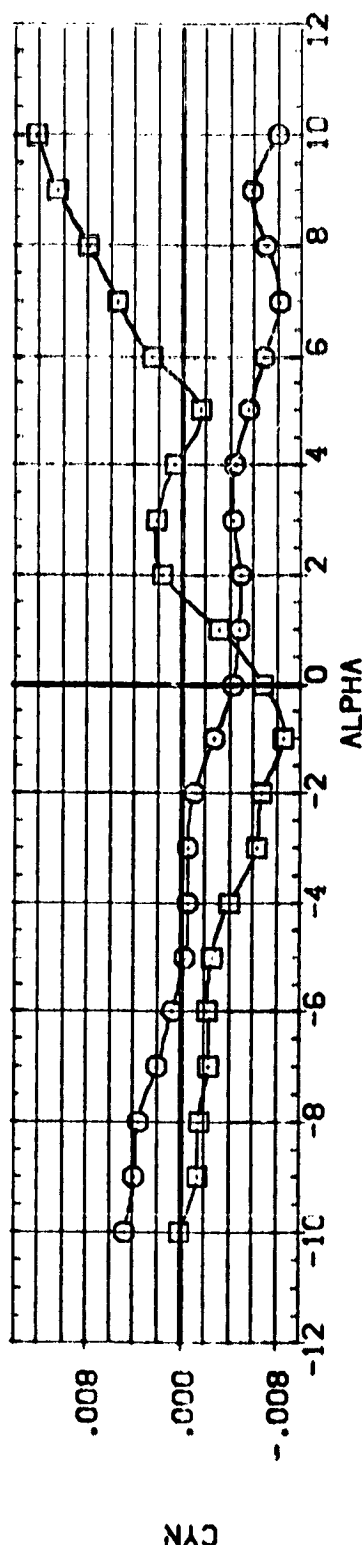
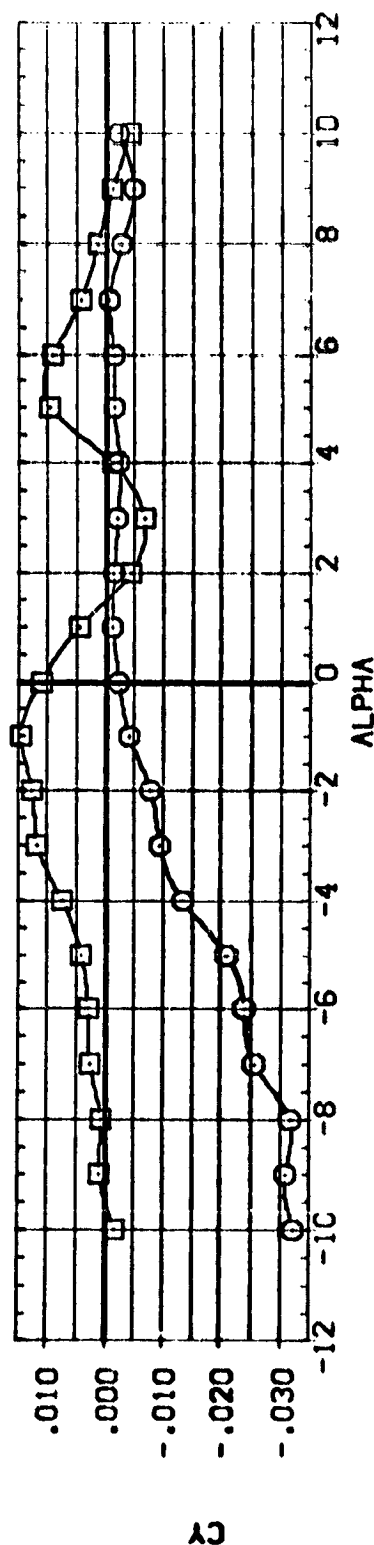
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=2.08)

(M)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO51) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
 (RTLO62) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA
 2.200 2.080 1500.000
 3.300 2.080 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1260.3000 IN.
 BREF 1260.3000 IN.
 XPRP 1052.0000 IN.
 YPRP 1052.0000 IN.
 ZPRP 447.0000 IN.
 SCALE .0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/E T CHARACT. (RN/L=2.08)

CAD MACH = 4.50

AEDC VA-422(1A-57), ORB/ET V/BOOTH SRS
AEDC VA-422(1A-57), ORB/ET V/BOOTH SRS

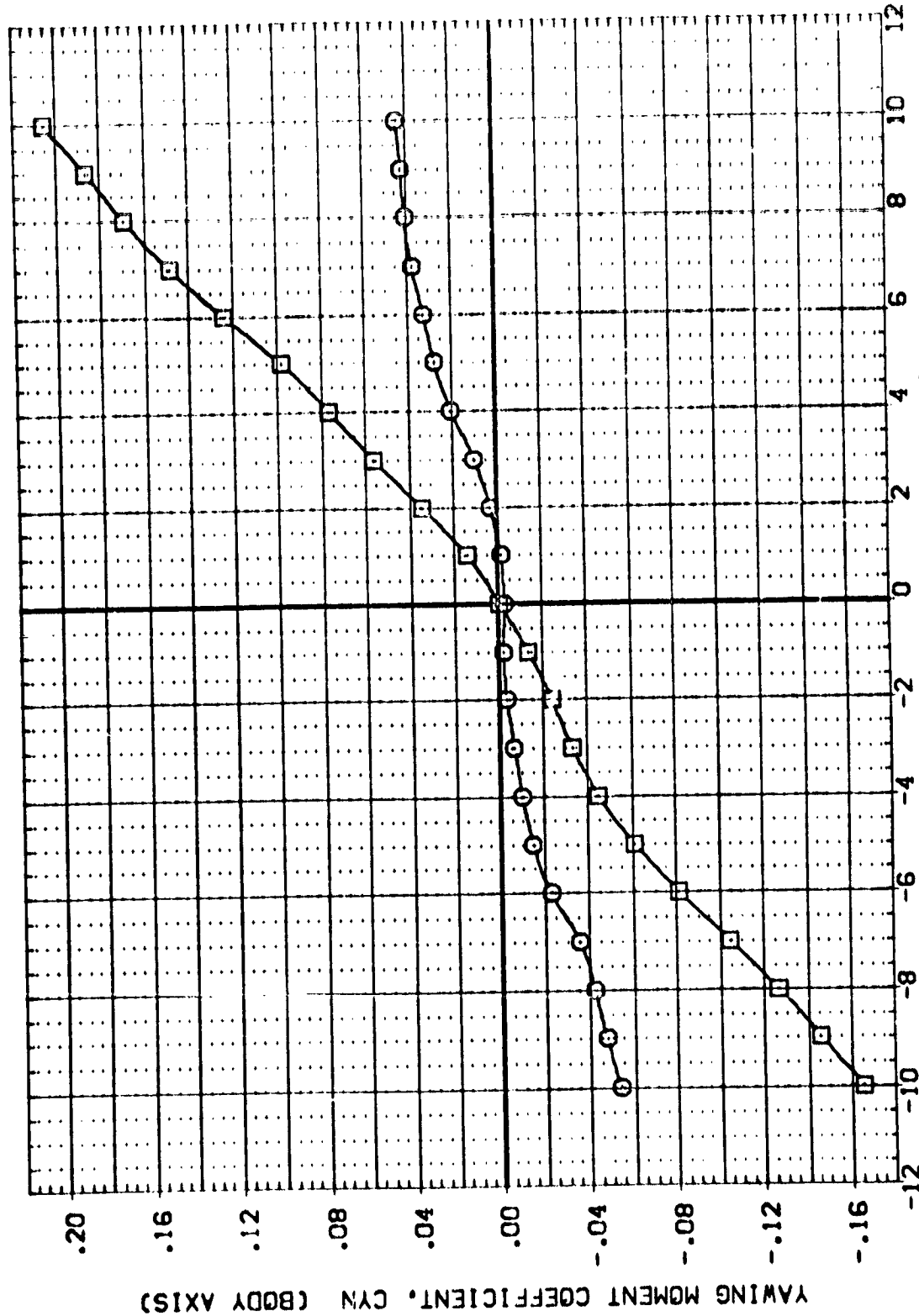
2.080 150.000
2.080 150.000

SCALE	447.0000	452.0000	457.0000	462.0000	467.0000	472.0000	477.0000	482.0000	487.0000	492.0000	497.0000	502.0000	507.0000	512.0000	517.0000	522.0000	527.0000	532.0000	537.0000	542.0000	547.0000	552.0000	557.0000	562.0000	567.0000	572.0000	577.0000	582.0000	587.0000	592.0000	597.0000	602.0000	607.0000	612.0000	617.0000	622.0000	627.0000	632.0000	637.0000	642.0000	647.0000	652.0000	657.0000	662.0000	667.0000	672.0000	677.0000	682.0000	687.0000	692.0000	697.0000	702.0000	707.0000	712.0000	717.0000	722.0000	727.0000	732.0000	737.0000	742.0000	747.0000	752.0000	757.0000	762.0000	767.0000	772.0000	777.0000	782.0000	787.0000	792.0000	797.0000	802.0000	807.0000	812.0000	817.0000	822.0000	827.0000	832.0000	837.0000	842.0000	847.0000	852.0000	857.0000	862.0000	867.0000	872.0000	877.0000	882.0000	887.0000	892.0000	897.0000	902.0000	907.0000	912.0000	917.0000	922.0000	927.0000	932.0000	937.0000	942.0000	947.0000	952.0000	957.0000	962.0000	967.0000	972.0000	977.0000	982.0000	987.0000	992.0000	997.0000	1002.0000	1007.0000	1012.0000	1017.0000	1022.0000	1027.0000	1032.0000	1037.0000	1042.0000	1047.0000	1052.0000	1057.0000	1062.0000	1067.0000	1072.0000	1077.0000	1082.0000	1087.0000	1092.0000	1097.0000	1102.0000	1107.0000	1112.0000	1117.0000	1122.0000	1127.0000	1132.0000	1137.0000	1142.0000	1147.0000	1152.0000	1157.0000	1162.0000	1167.0000	1172.0000	1177.0000	1182.0000	1187.0000	1192.0000	1197.0000	1202.0000	1207.0000	1212.0000	1217.0000	1222.0000	1227.0000	1232.0000	1237.0000	1242.0000	1247.0000	1252.0000	1257.0000	1262.0000	1267.0000	1272.0000	1277.0000	1282.0000	1287.0000	1292.0000	1297.0000	1302.0000	1307.0000	1312.0000	1317.0000	1322.0000	1327.0000	1332.0000	1337.0000	1342.0000	1347.0000	1352.0000	1357.0000	1362.0000	1367.0000	1372.0000	1377.0000	1382.0000	1387.0000	1392.0000	1397.0000	1402.0000	1407.0000	1412.0000	1417.0000	1422.0000	1427.0000	1432.0000	1437.0000	1442.0000	1447.0000	1452.0000	1457.0000	1462.0000	1467.0000	1472.0000	1477.0000	1482.0000	1487.0000	1492.0000	1497.0000	1502.0000	1507.0000	1512.0000	1517.0000	1522.0000	1527.0000	1532.0000	1537.0000	1542.0000	1547.0000	1552.0000	1557.0000	1562.0000	1567.0000	1572.0000	1577.0000	1582.0000	1587.0000	1592.0000	1597.0000	1602.0000	1607.0000	1612.0000	1617.0000	1622.0000	1627.0000	1632.0000	1637.0000	1642.0000	1647.0000	1652.0000	1657.0000	1662.0000	1667.0000	1672.0000	1677.0000	1682.0000	1687.0000	1692.0000	1697.0000	1702.0000	1707.0000	1712.0000	1717.0000	1722.0000	1727.0000	1732.0000	1737.0000	1742.0000	1747.0000	1752.0000	1757.0000	1762.0000	1767.0000	1772.0000	1777.0000	1782.0000	1787.0000	1792.0000	1797.0000	1802.0000	1807.0000	1812.0000	1817.0000	1822.0000	1827.0000	1832.0000	1837.0000	1
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$$CAIMACH = 4.50$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTL052) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 (RTL053) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRBPOS RN/L PT-JET ALPHA REFERENCE INFORMATION
 2.200 2.080 1500.000 .000 SREF 2650.0000 SQ.FT.
 3.300 2.080 1500.000 .000 LREF 1250.0000
 XGRP 1250.0000 NREF 1250.0000 N.
 YGRP 1252.0000 NREF 1252.0000 N.
 ZGRP 447.0000 NREF 447.0000 N.
 SCALE .0100



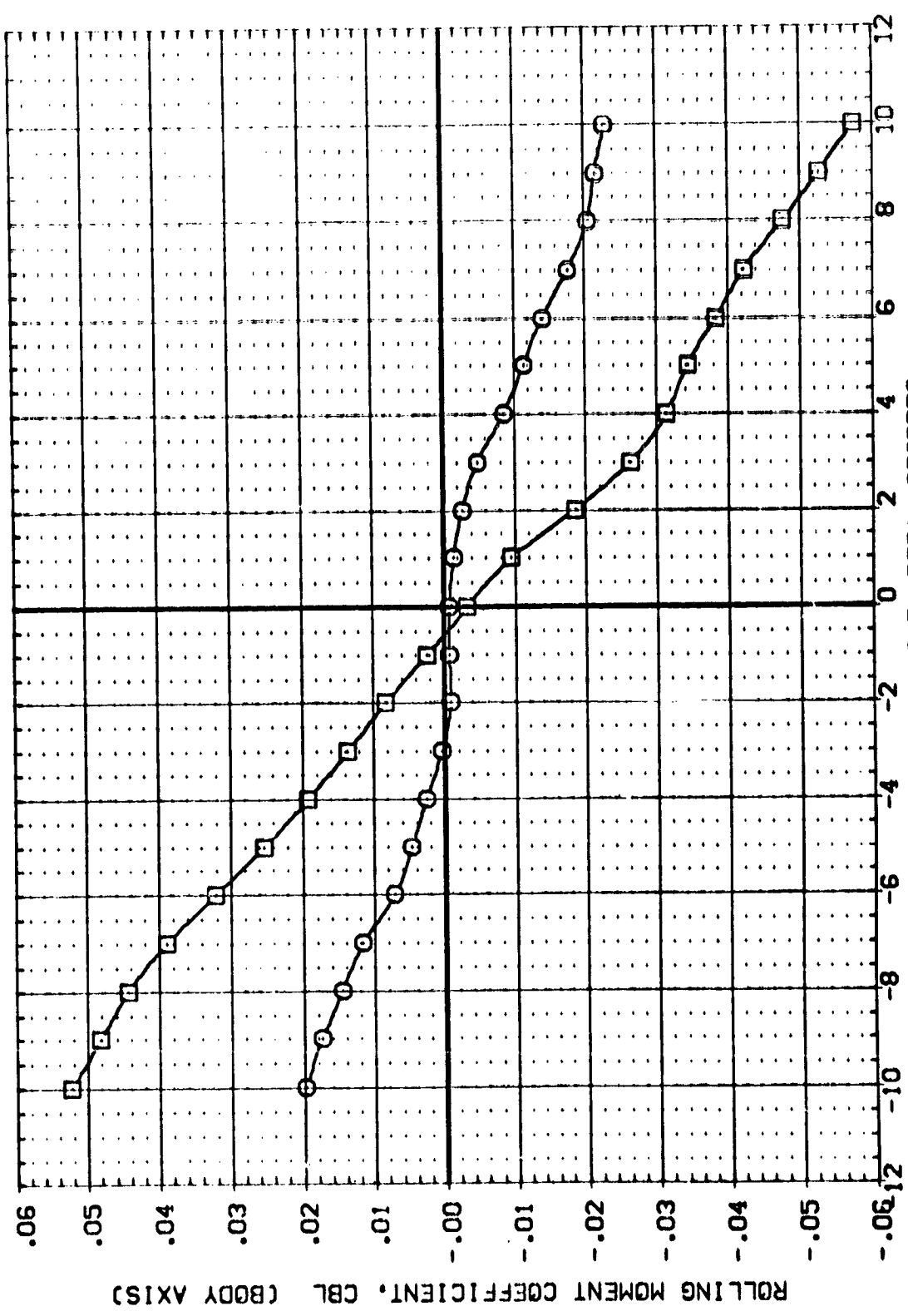
EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=2.08)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO52) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
(RTLO63) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION
2.200 2.080 1500.000 .000 SREF 4590 3000 SQ.FT.
3.300 2.080 1500.000 .000 LREF 1950 3000
XREF 1950 3000
YREF 1950 3000
ZREF 1950 3000
SCALE 447.3333
XT 1950
YT 3000
ZT 3000



EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=2.08)

(A)MACH = 4.50

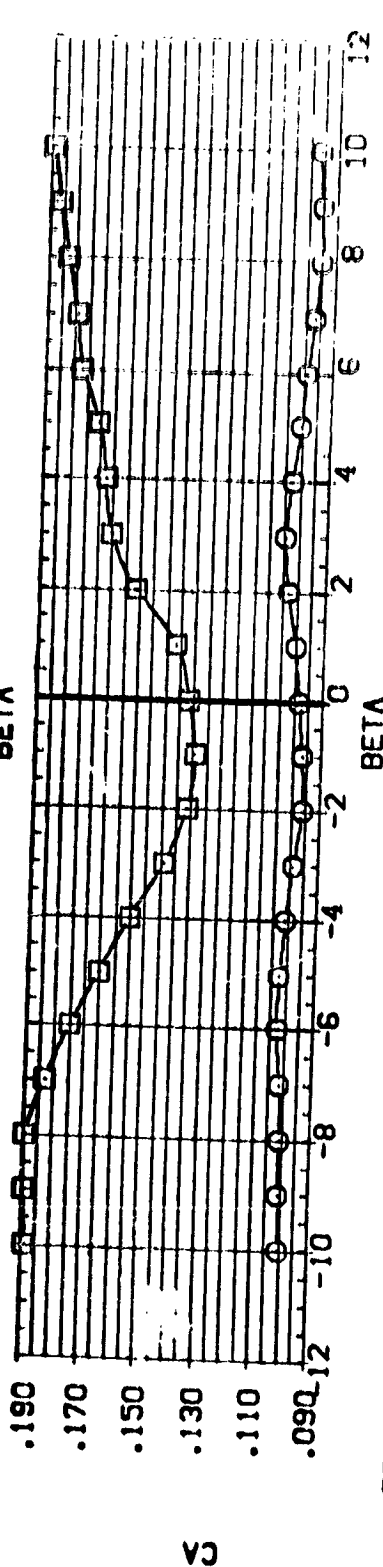
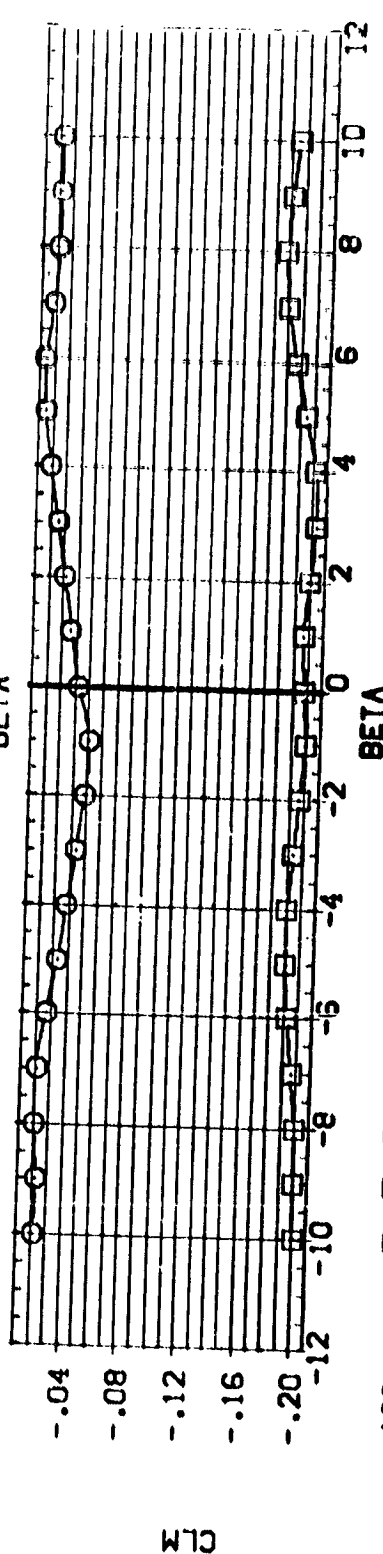
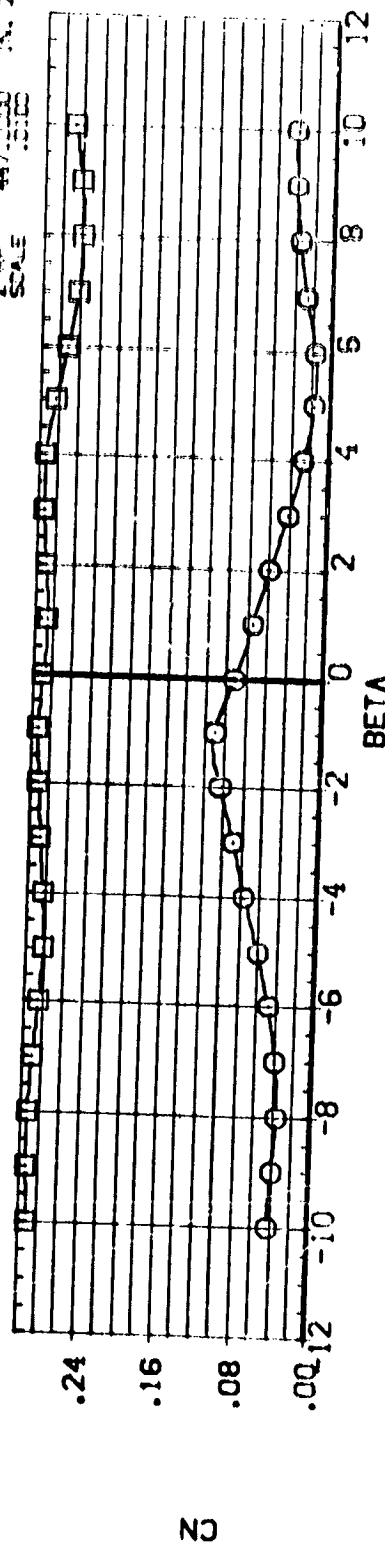
DATA SET SYMBOL (RTLO52) (RTLO53)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57). ORB/ET V/BOTH SRB
AEDC VA-422(1A-57). ORB/ET V/BOTH SRB

SRB POS 2.200 3.300
RV/L 2.080 1500.000 2.080 1500.000
PT-JET ALP-A .000 .000

REFERENCE INFORMATION
SREF 3690.0000 SQ. FT.
LREF 1200.0000
BREF 1200.0000
XREF 1200.0000
YREF 1200.0000
ZREF 447.0000
SCALE

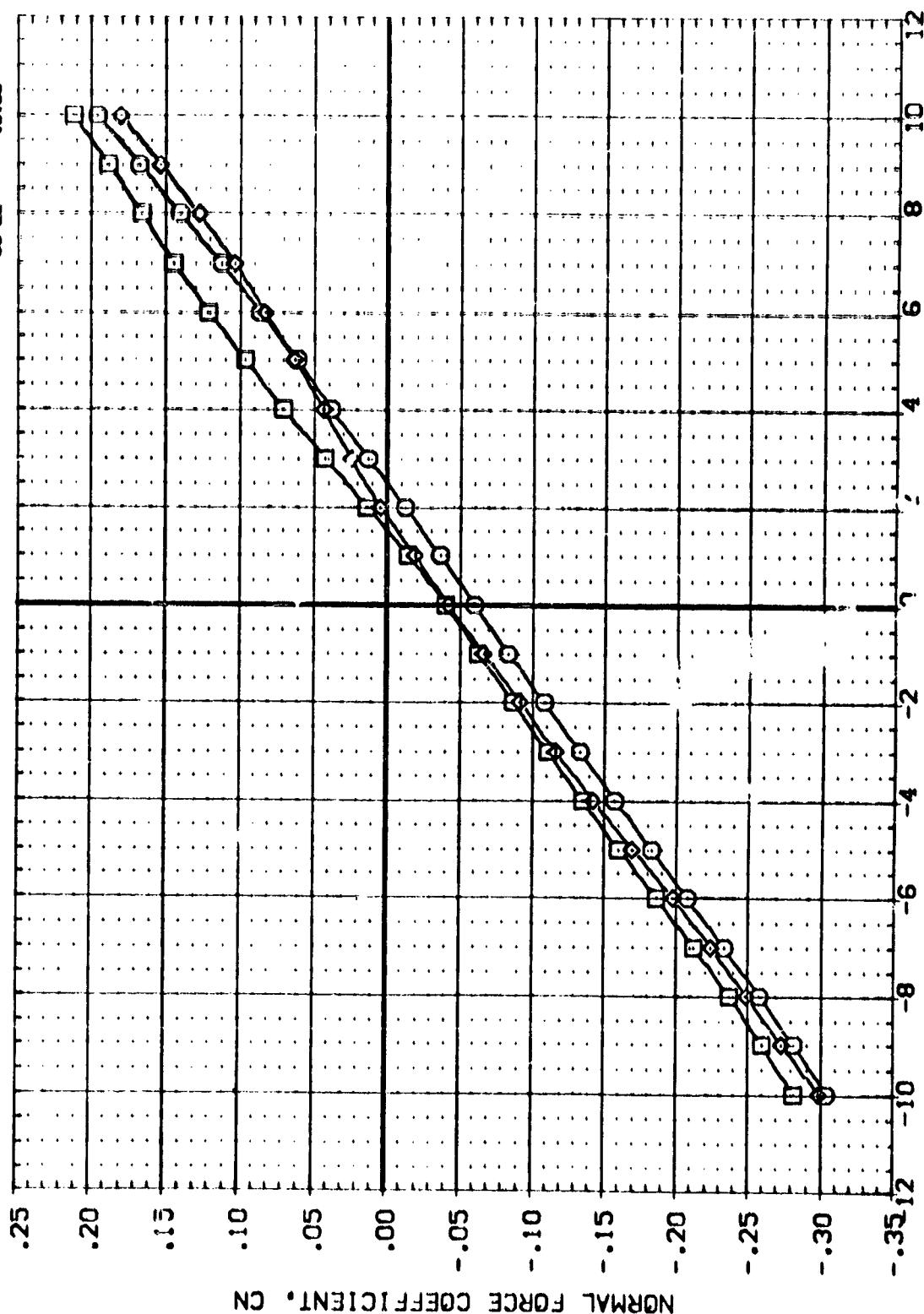


EFFECT OF SYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RV/L=2.08)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO34) AEDC VA-422(1A-57); CRB/JET V/BOOTH SRB
 (RTLO45) AEDC VA-422(1A-57); CRB/JET V/BOOTH SRB
 (RTLO55) AEDC VA-422(1A-57); CRB/JET V/BOOTH SRB

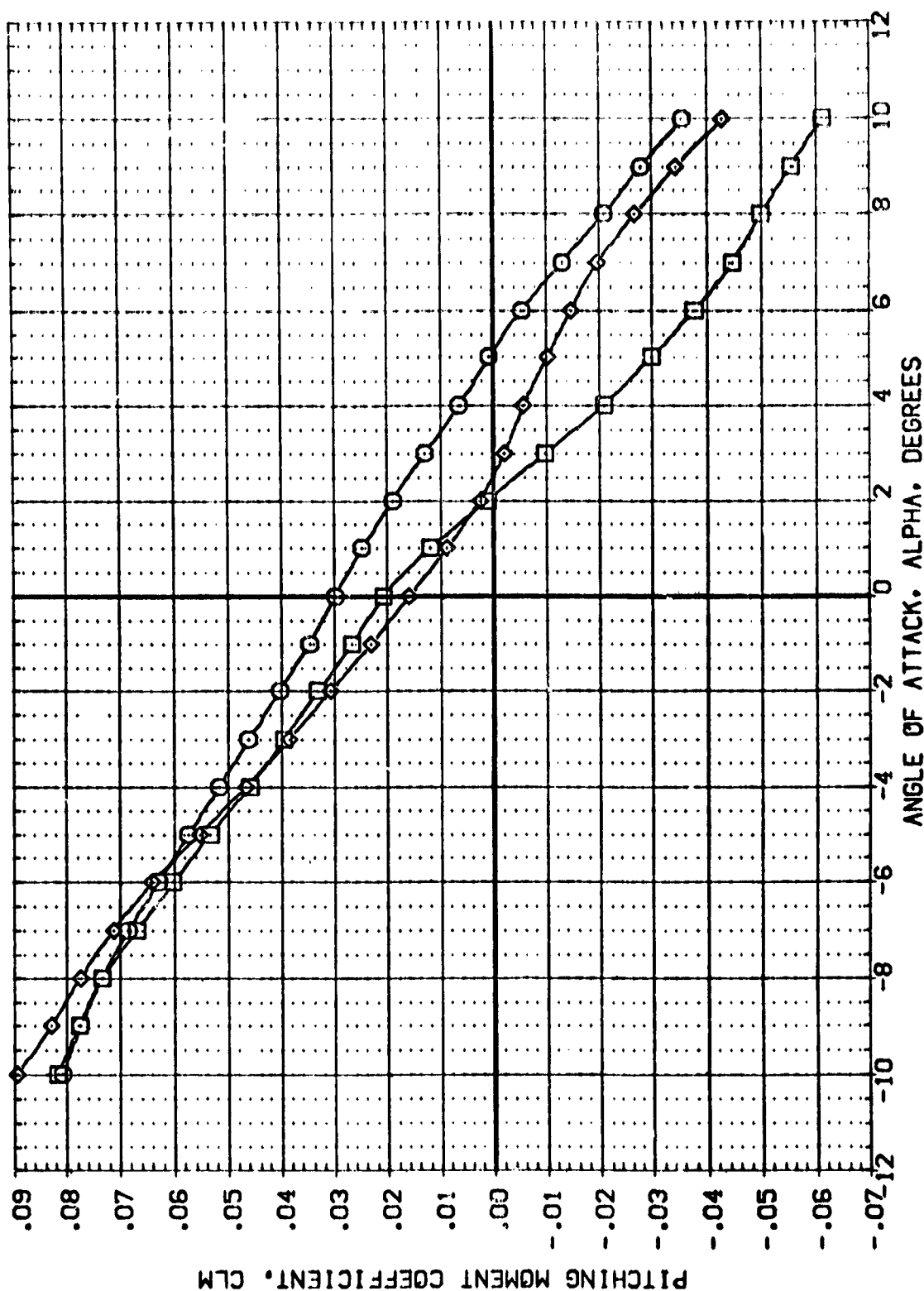
SRBPOS RV/L PT-JET SETA REFERENCE INFORMATION
 1.100 .000 .000 SREF 2630.0000 SC.FT.
 2.200 .000 .000 SREF 1280.3000 SC.FT.
 3.300 .000 .000 SREF 1280.3000 SC.FT.
 4.47 .000 .000 SREF 1280.3000 SC.FT.
 5.50 .000 .000 SREF 1280.3000 SC.FT.
 6.50 .000 .000 SREF 1280.3000 SC.FT.
 7.50 .000 .000 SREF 1280.3000 SC.FT.
 8.50 .000 .000 SREF 1280.3000 SC.FT.
 9.50 .000 .000 SREF 1280.3000 SC.FT.
 10.50 .000 .000 SREF 1280.3000 SC.FT.
 11.50 .000 .000 SREF 1280.3000 SC.FT.
 12.50 .000 .000 SREF 1280.3000 SC.FT.



ANGLE OF ATTACK ALPHA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION WITH O/EI CHARACTER. (RV/L=1.76)
 (A)MACH = 4.50

SREFPOS	RVL	PT-JET	BETA		REFERENCE INFORMATION	SQ.FT.
1.100	1.760	.000	.000	STRT	1290	XI
2.200	1.760	.000	.000	LREF	1290	IN:
3.300	1.760	.000	.000	BREF	1290	IN:
				XPRP	1052	IN:
				YPRP	1000	IN:
				ZPRP	447	IN:
				SCALE	.0100	Z

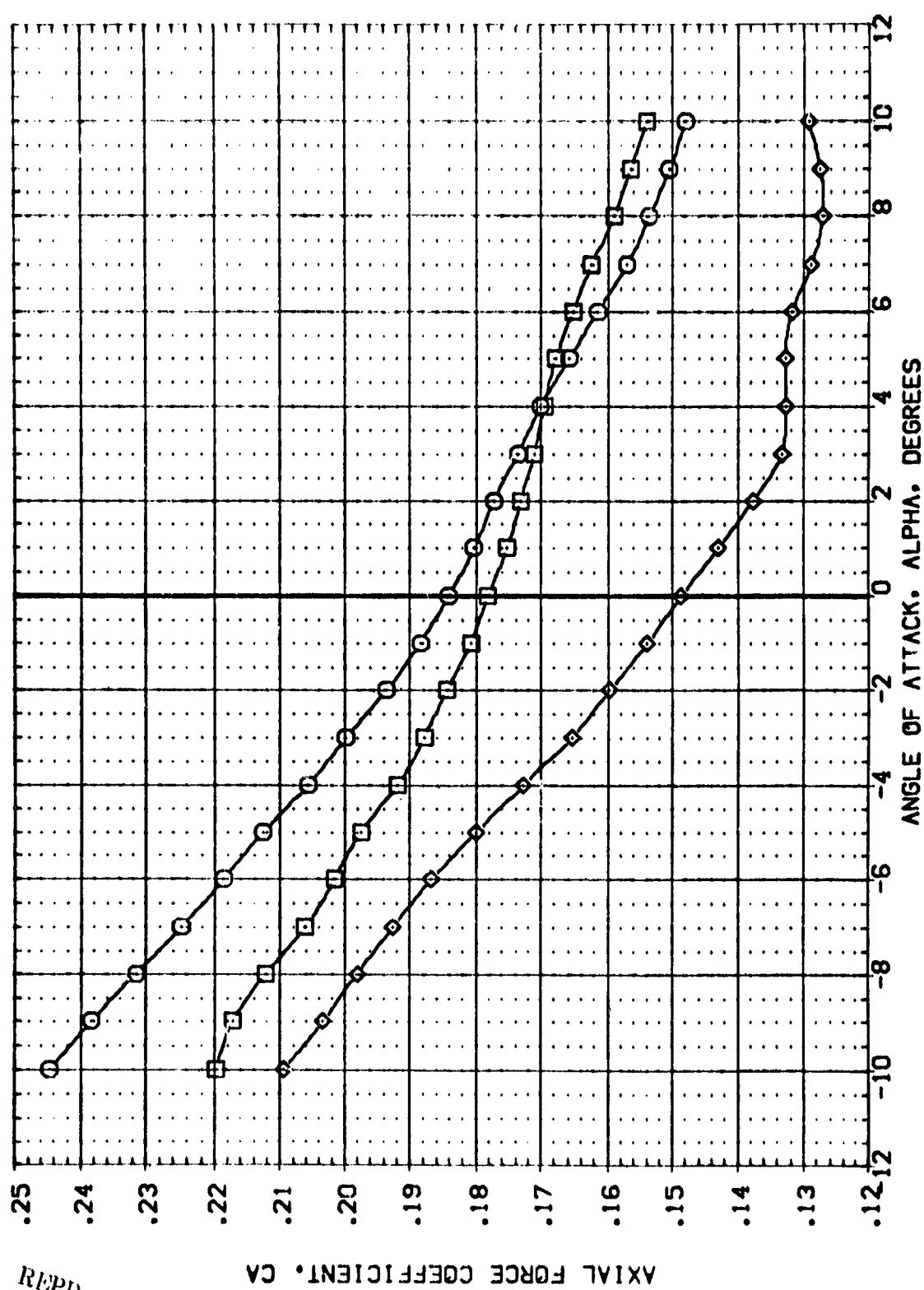


EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON O/ET CHARACTER. (RM/L=1.75)

$$\{A\}MACH = 4.50$$

54
PAGE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRRPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(RTLO34)	AEDC VA-422(1A-57); CRB/ET V/80TH SRB	1.100	1.760	.000	.000	SREF 2.000000 50. FT.
(RTLO45)	AEDC VA-422(1A-57); CRB/ET V/80TH SRB	2.200	1.760	.000	.000	LREF 1250.0000 10. IN.
(RTLO56)	AEDC VA-422(1A-57); CRB/ET V/80TH SRB	3.300	1.760	.000	.000	BREF 1250.0000 10. IN.
						XREF 1250.0000 10. IN.
						YREF 1250.0000 10. IN.
						ZREF 1250.0000 10. IN.
						SCALE 447.0000



REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL: (RTL034) (RTL045) (RTL056)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET W/BOTH SRB
 AEDC VA-422(1A-57); ORB/ET W/BOTH SRB
 AEDC VA-422(1A-57); ORB/ET W/BOTH SRB

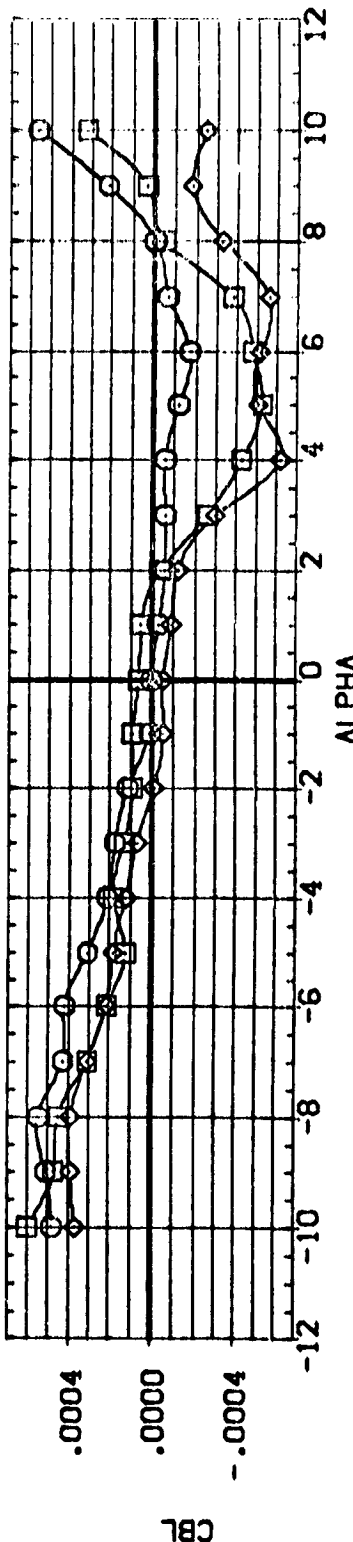
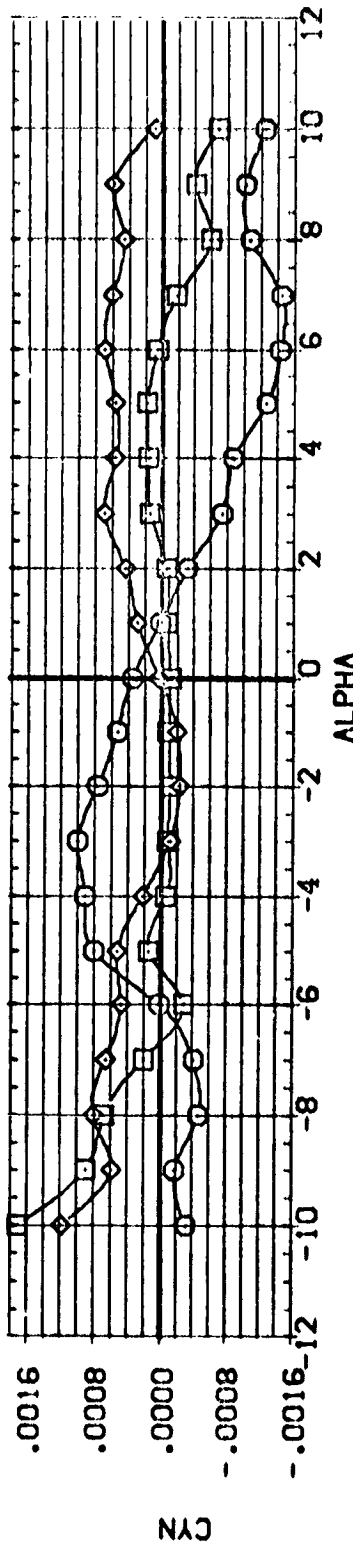
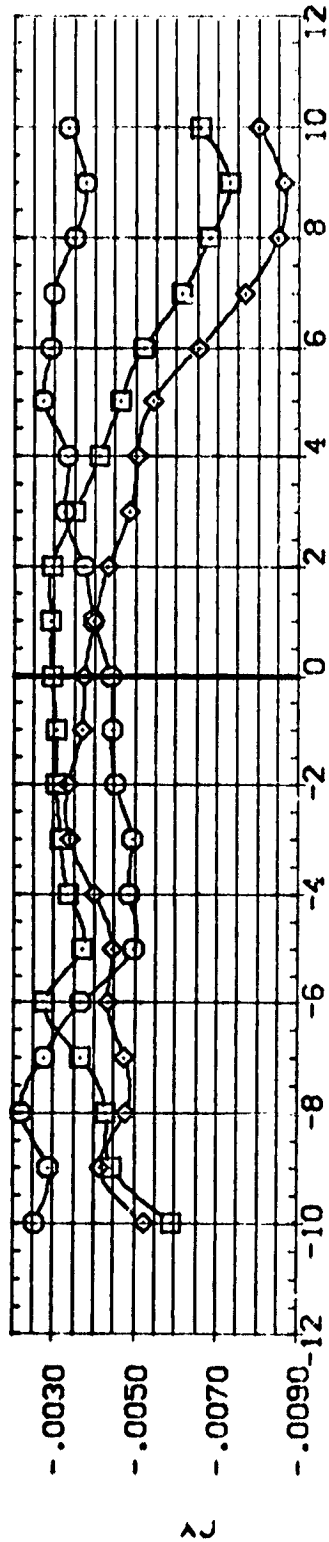
SRBPOS: 1.100 1.760 2.200 3.300

RN/L: 1.760 1.760 1.760 1.760

PT-JET: .000 .000 .000 .000

BETA: .000 .000 .000 .000

REFERENCE INFORMATION: SREF: 2690.0000 SQ.FT.
 LREF: 290.3000 IN.
 BREF: 290.3000 IN.
 XPRP: .052.0000 IN.
 YPRP: .0000 IN.
 ZPRP: .0000 IN.
 SCALE: 447.0000 IN.
 .0100

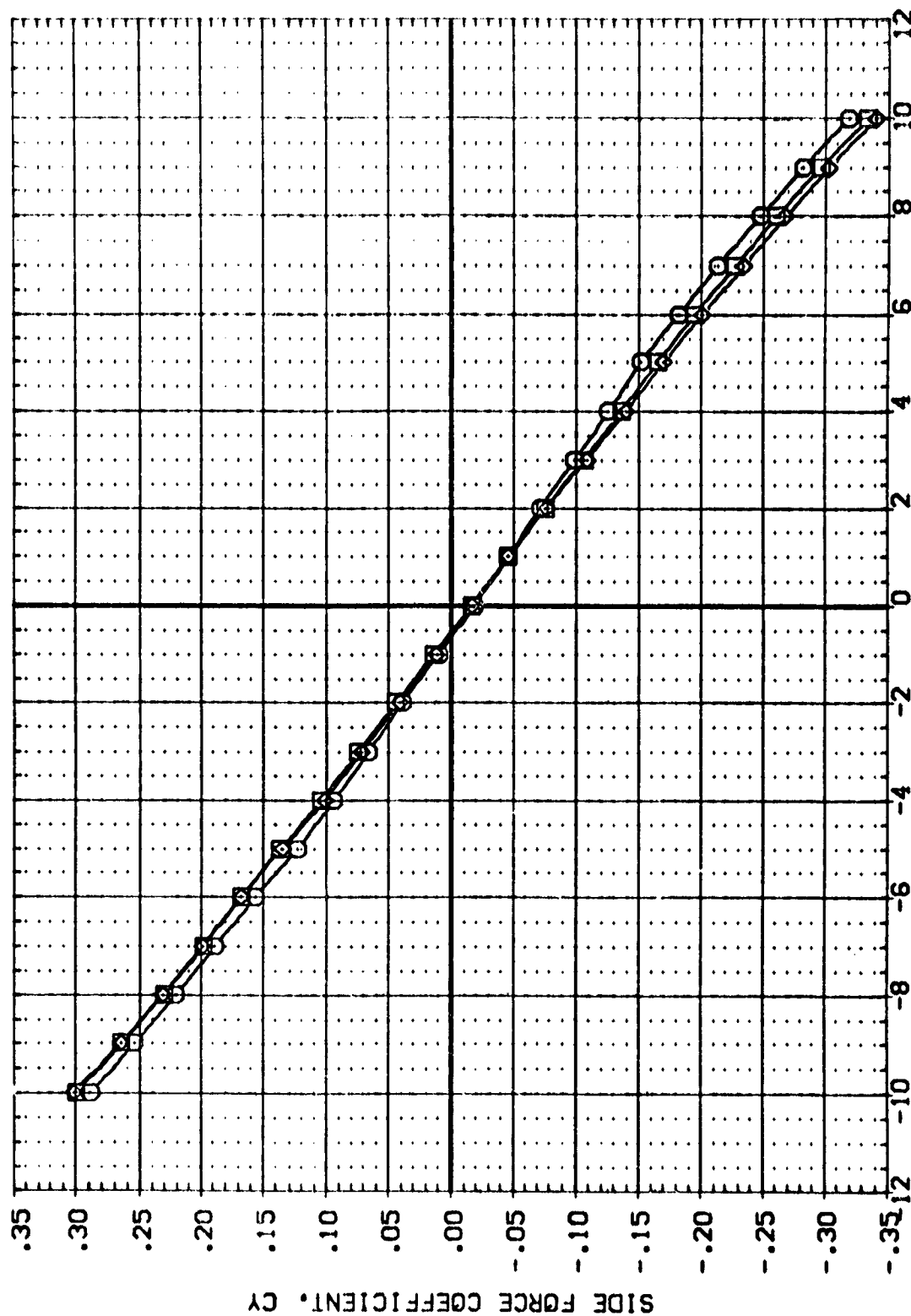


EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

CAMACH = 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLO35)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	1.100	1.760	.000	.000	SREF 2690.0000 SD.FT.
(RTLO46)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	2.200	1.760	.000	.000	LRREF 1250.0000 N.
(RTLO57)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	3.300	1.760	.000	.000	BRF 1250.0000 N.
						YREF 1252.0000 N.
						YREF 1252.0000 N.
						ZREF 447.0000 N.
						SCALE .0100



EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL
 (RTL035)
 (RTL045)
 (RTL057)

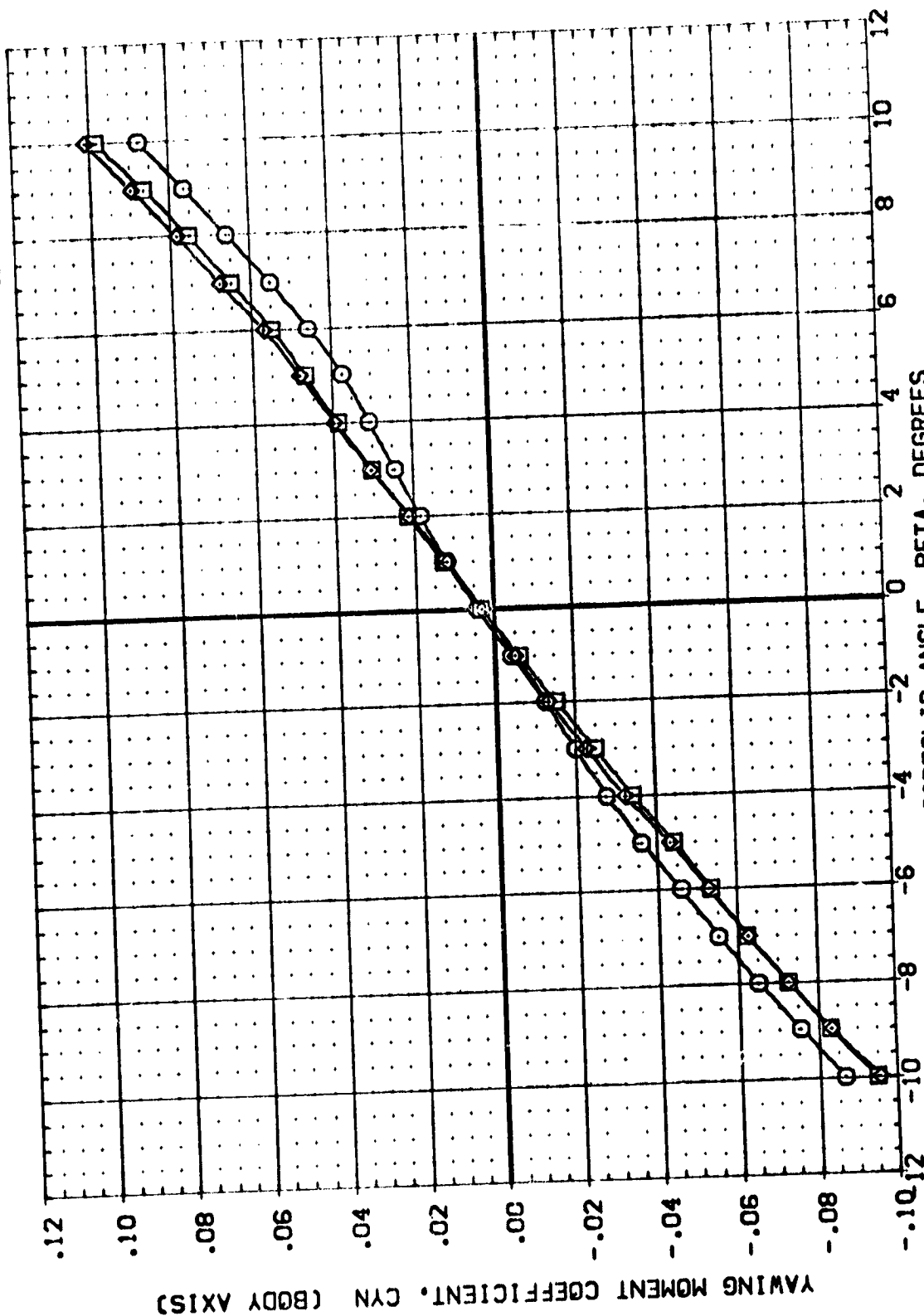
CONFIGURATION DESCRIPTION
 AEDC VA-422(A-57): ORB/ET V/BOTH SRB
 AEDC VA-422(A-57): ORB/ET V/BOTH SRB
 AEDC VA-422(A-57): ORB/ET V/BOTH SRB

SRBPOS
 1.100
 2.200
 3.300

PT-JET
 .000
 .000
 .000

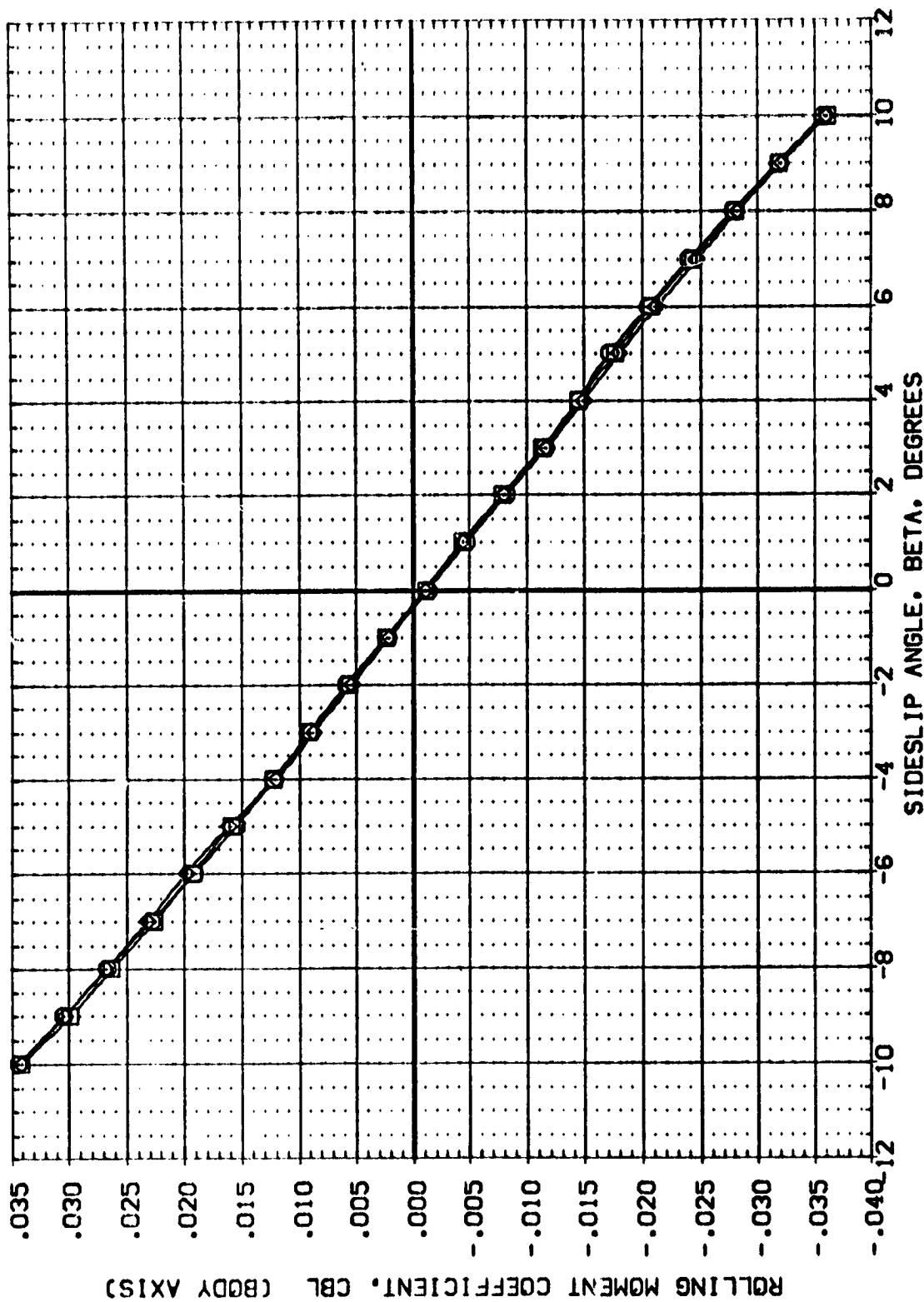
ALPHA
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000
 LREF 1290.0000
 BREF 1290.0000
 YMRP 1290.0000
 ZMRP 447.0000
 SCALE 0.100



EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON C/ET CHARACT. (RN/L=1.76)
 (MACH = 4.50)
 PAGE 50

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLO35)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	1.100	1.760	.000	.000	SREF 2690.0000 SQ.FT.
(RTLO46)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	2.200	1.760	.000	.000	LREF 1290.3000
(RTLO57)	AEDC VA-422(1A-57); CRB/ET V/BOOTH SRB	3.300	1.760	.000	.000	BREF 1290.3000
						XREF 1052.0000
						YREF .0000
						ZREF 447.0000
						SCALE .0100



EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLOMES ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

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DATA SET SYMBOL: (RTL035) (RTL045) (RTL057)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

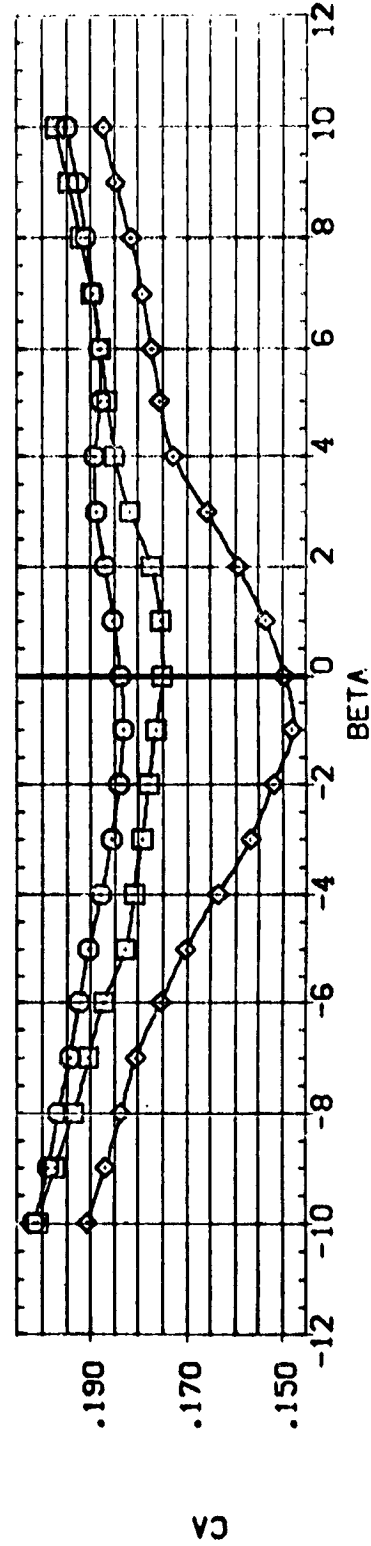
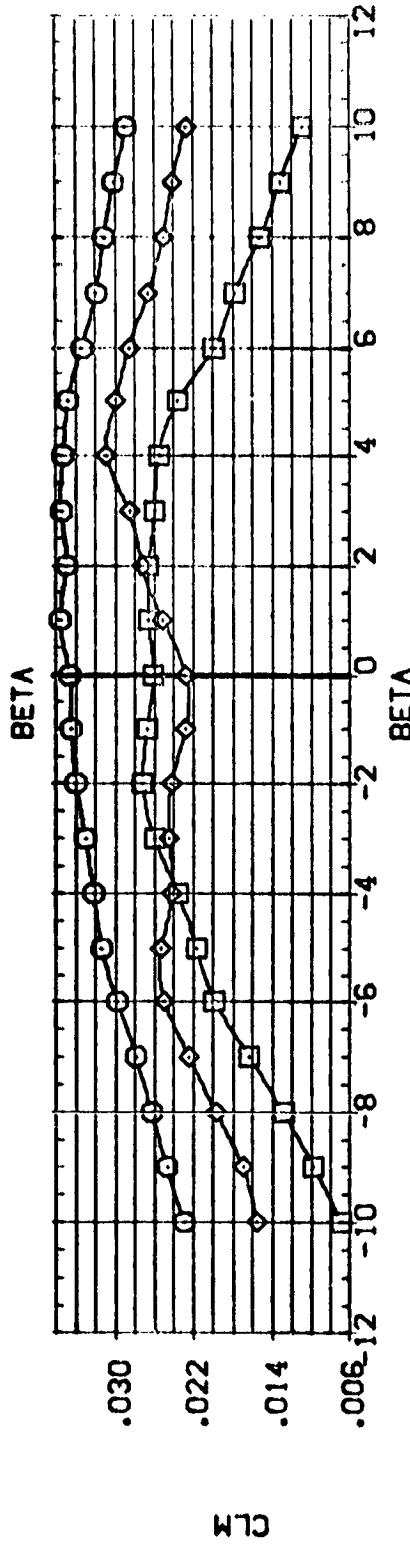
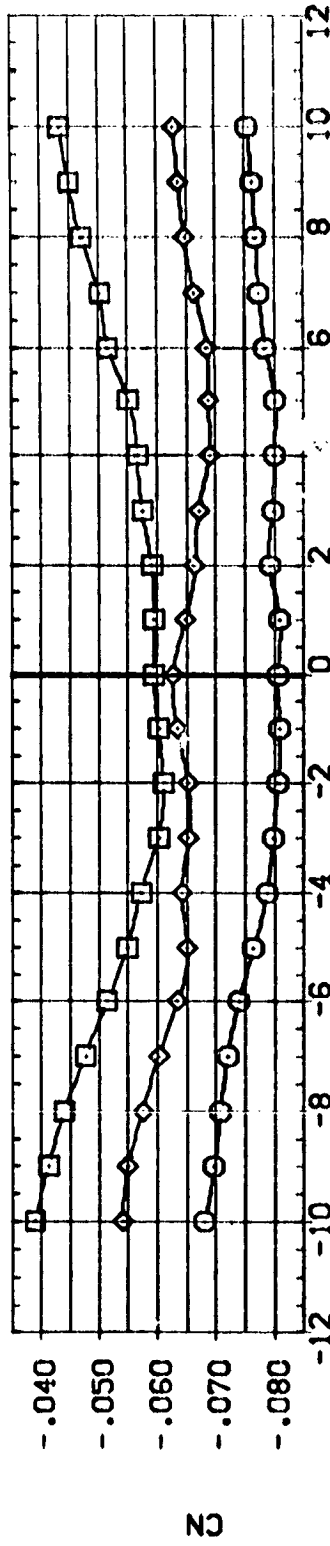
SRB POS: 1.100 2.200 3.300

RN/L: 1.760 1.760 1.760

PT-JET: .000 .000 .000

ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF 2650.0000 50. FT. LREF 1290.3000 IN. XT 1290.3000 IN. YF 1052.0000 IN. ZF 447.0000 IN. SCALE 0.000



EFFECT OF SYMMETRICAL SRB SEPARATION WITH NO PLUMES ON O/ET CHARACTERISTICS (RN/L=1.76)

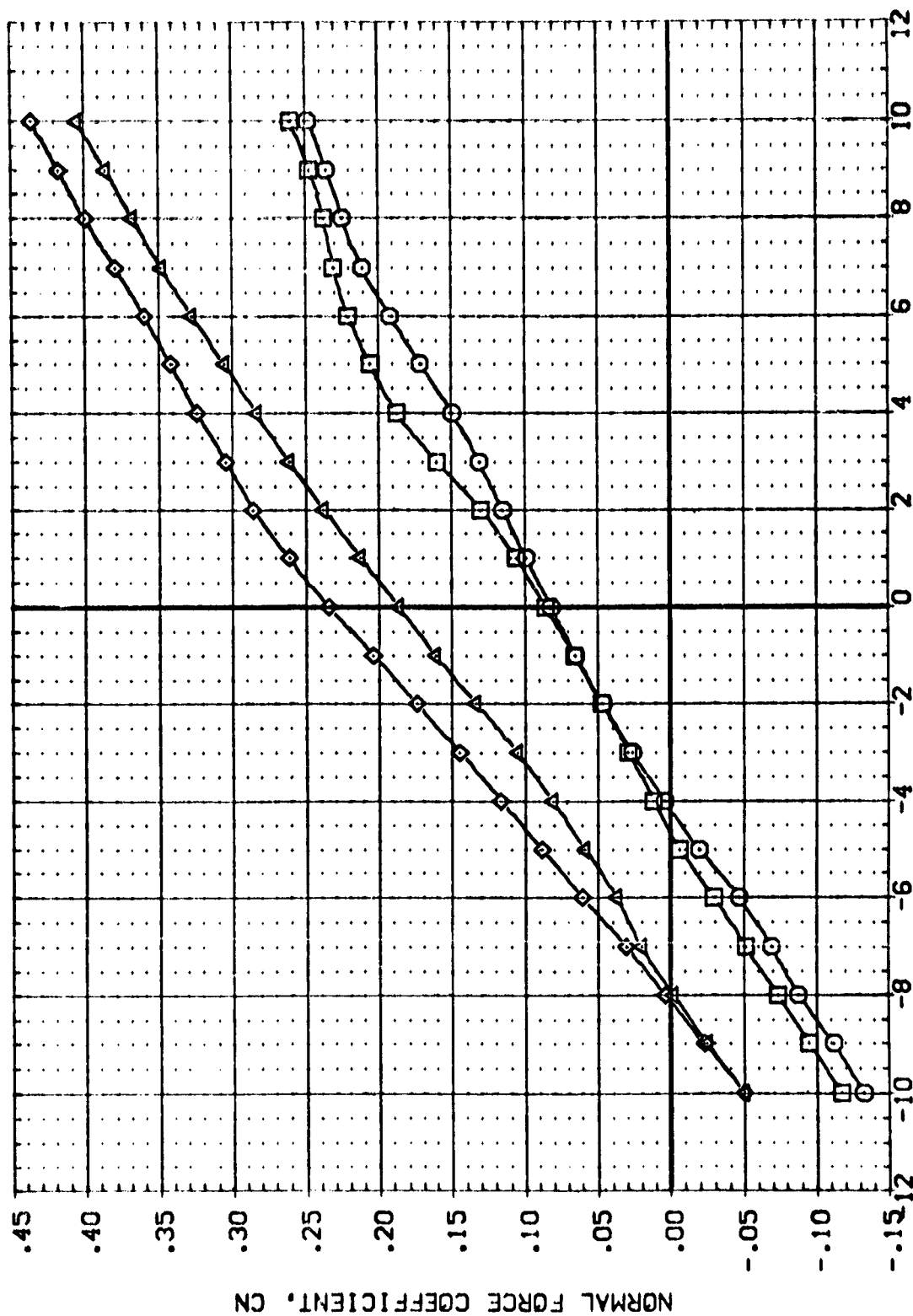
(A) MACH = 4.50

PAGE 52

[RTLO68]	AEDC VA-422[A-57],	C8B/ET	S9B
[RTLO72]	AEDC VA-422[A-57],	C8B/ET	S9B
[RTLO76]	AEDC VA-422[A-57],	C8B/ET	S9B
[RTLO80]	AEDC VA-422[A-57],	C8B/ET	S9B

SRBPOS	RN/L	PT-JET	BETA
1.200	1.760	1500.000	.000
2.100	1.760	1500.000	.000
2.300	1.760	1500.000	.000
3.200	1.760	1500.000	.000

REFERENCE INFORMATION	
SREF	2690.000
REF	1290.300
LR	290.300
Xy2p	1052.200
Yy2p	0000
Zy2p	447.000
SCALE	0.000



ANGLE OF ATTACK. ALPHA. DEGREES

EFFECT OF UNSYMMETRICAL SRB SEPARATION ON O/E/T CHARACTER. (RN/L=1 76)

$$\{A\}MACH = 4.50$$

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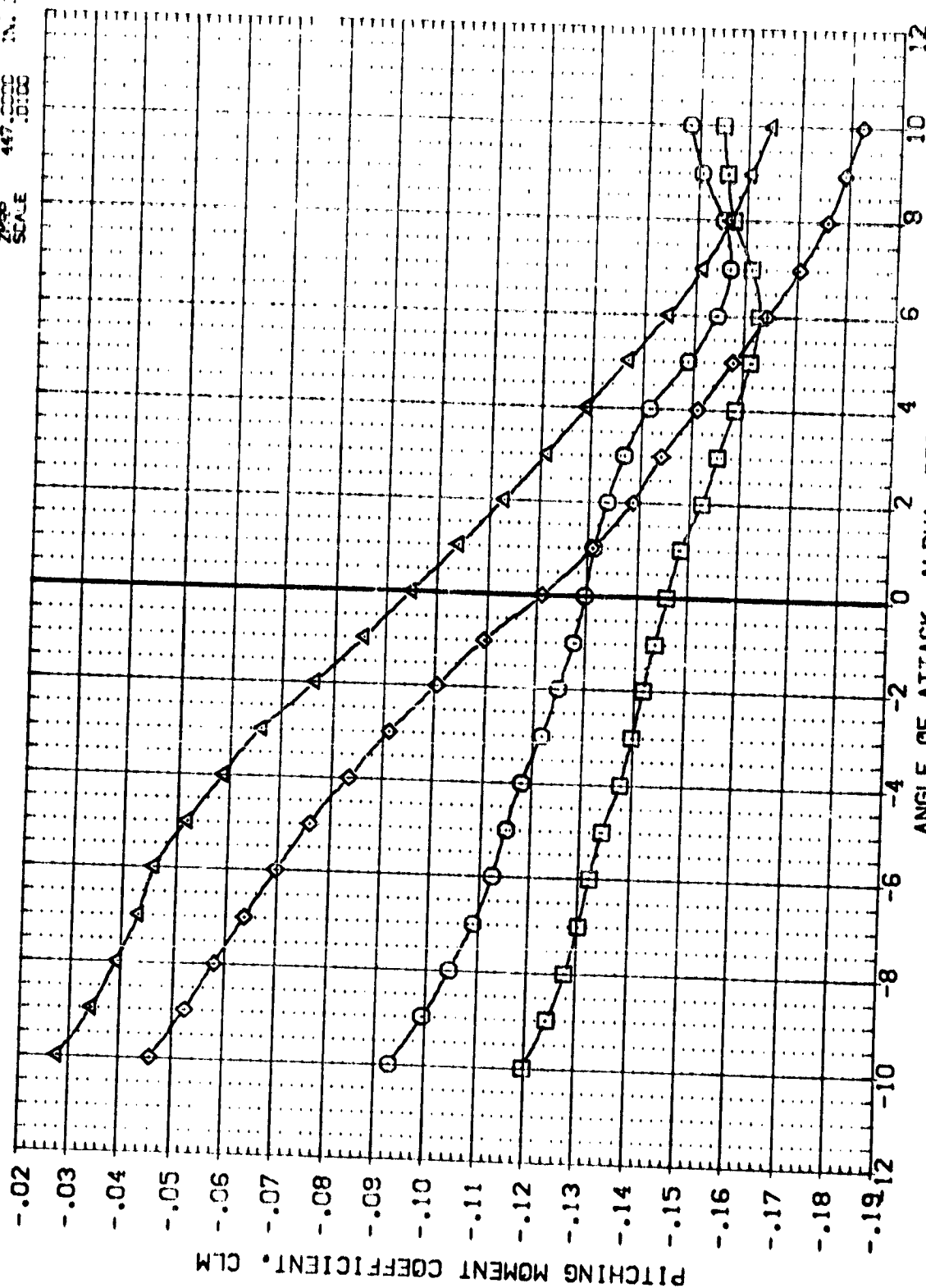
REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

DATA SET SYMBOL CONFIGURATION DESCRIPTION

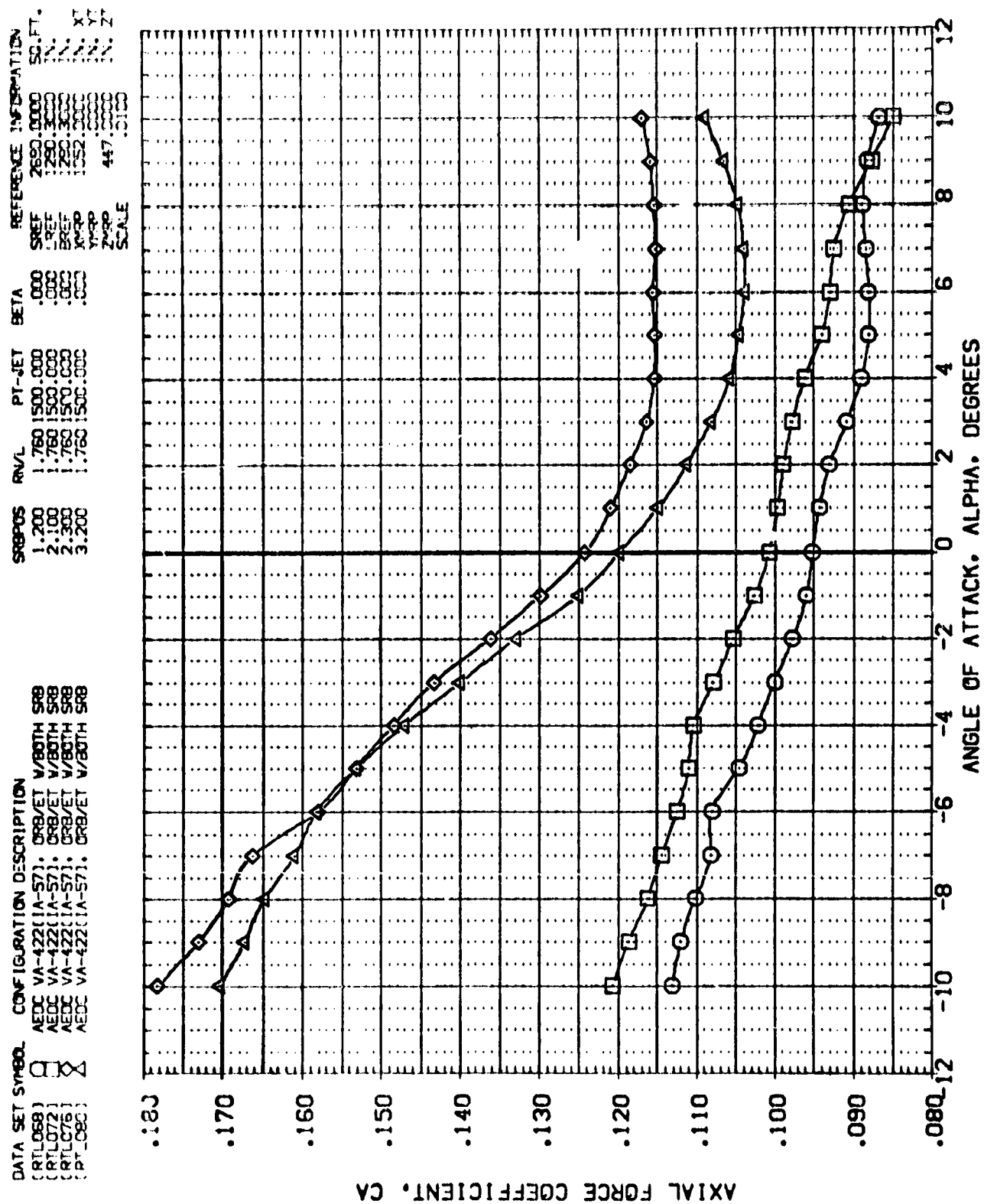
(RTL068) AEDC VA-422 (A-57), ORB/ET W/80TH SRB
 (RTL072) AEDC VA-422 (A-57), ORB/ET W/80TH SRB
 (RTL076) AEDC VA-422 (A-57), ORB/ET W/80TH SRB
 (RTL080) AEDC VA-422 (A-57), ORB/ET W/80TH SRB

SRBPOS RV/L PT-JET BETA
 1.200 1.760 1500.000 .000
 2.100 1.760 1500.000 .000
 2.300 1.760 1500.000 .000
 3.200 1.760 1500.000 .000

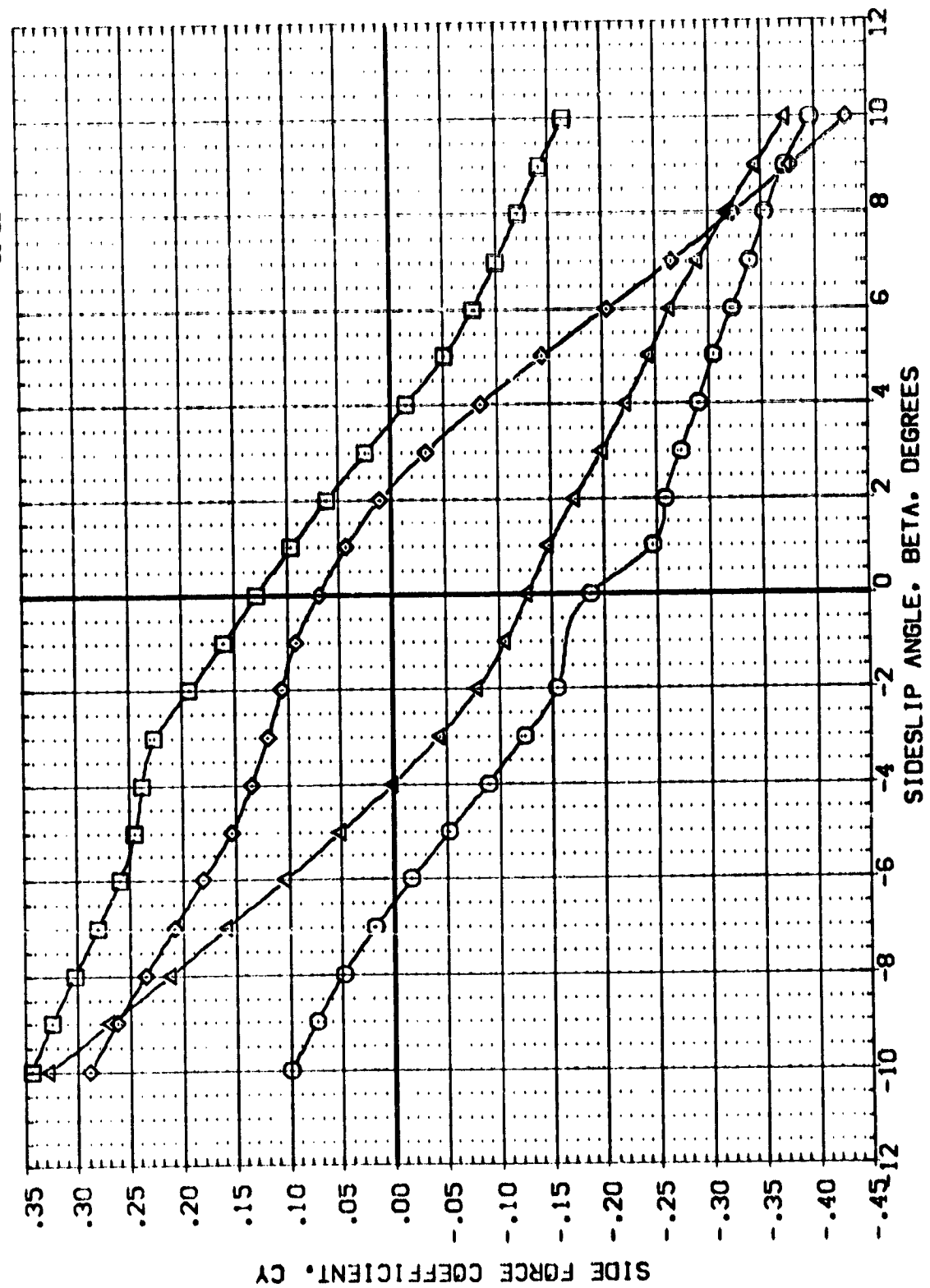
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 290.3000 IN.
 BREF 290.3000 IN.
 XREF 152.0000 IN.
 YREF 152.0000 IN.
 ZREF 447.0000 IN.
 SCALE .0100



EFFECT OF UNSYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76)
 (A)MACH = 4.50



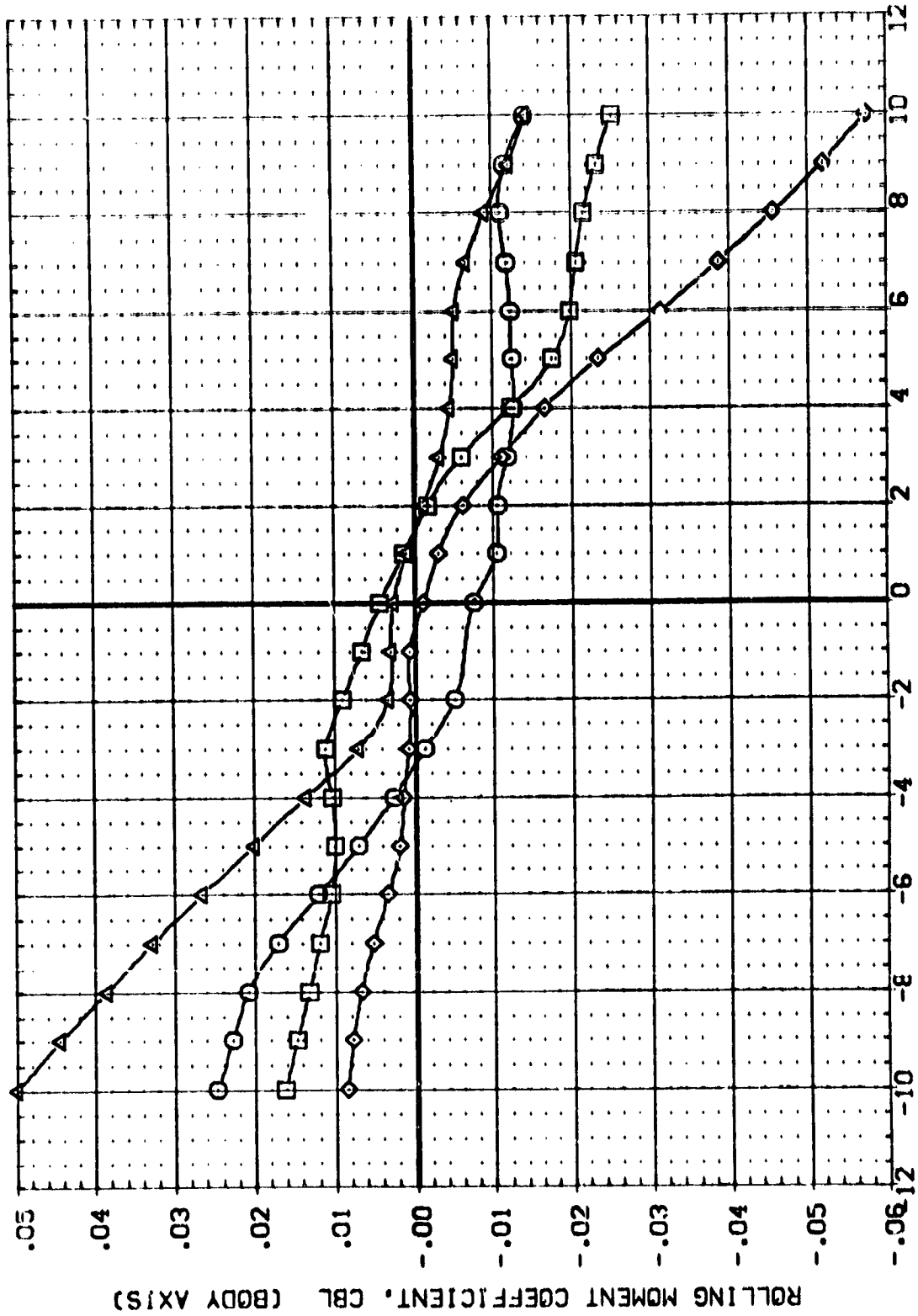
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLOB)	AEDC VA-422(1A-57), CRB/ET V/BOTH SRB	1.200	1.760	1500.000	.000	SHEET 2690.0000
(RTLO73)	AEDC VA-422(1A-57), CRB/ET V/BOTH SRB	2.100	1.760	1500.000	.000	REF 1290.0000
(RTLO77)	AEDC VA-422(1A-57), CRB/ET V/BOTH SRB	2.300	1.760	1500.000	.000	REF 1290.0000
(RTLO81)	AEDC VA-422(1A-57), CRB/ET V/BOTH SRB	3.200	1.760	1500.000	.000	REF 1290.0000
						SCALE 447.0000



EFFECT OF UNSYMMETRICAL SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(R1069)	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	1.200	1.760	1500.000	.000	SPEC 2500 0000 50. FT.
(R1073)	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.100	1.760	1500.000	.000	REF 2500 0000 50. FT.
(R1077)	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.300	1.760	1500.000	.000	SPEC 2500 0000 50. FT.
(R1081)	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	3.200	1.760	1500.000	.000	REF 2500 0000 50. FT.



EFFECT OF UNSYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO59) (RTLO73) (RTLO77) (RTLO81)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

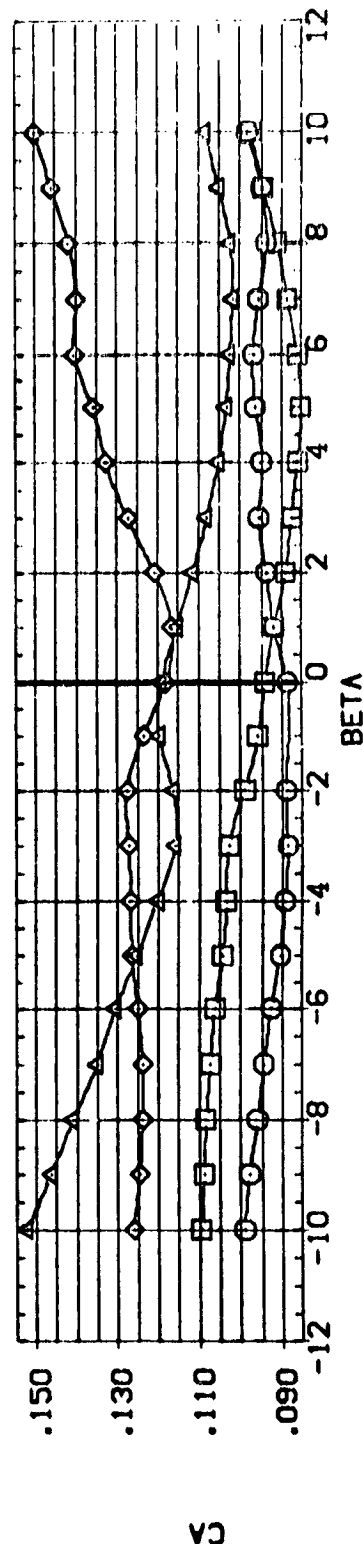
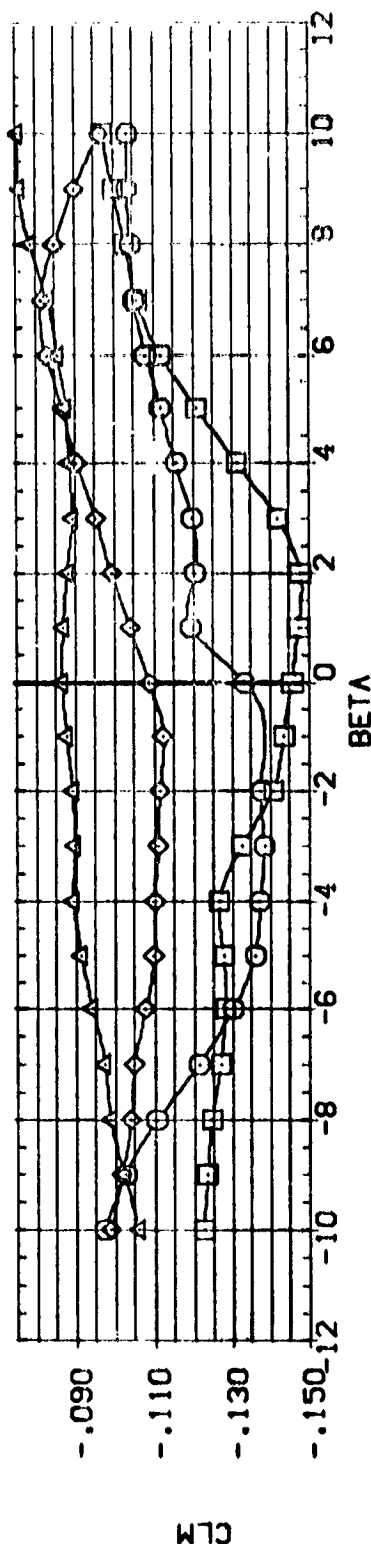
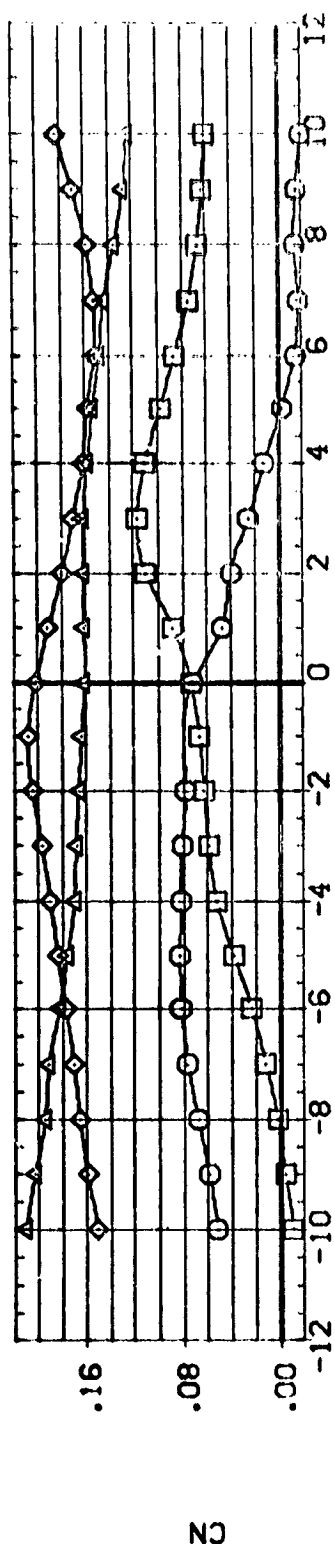
SRB POS: 1.200 2.100 2.300 3.200

AN/L: .760 1500.000 .760 1500.000 .760 1500.000 .760 1500.000

PT-JET: .000 .000 .000 .000

ALPHA: .000 .000 .000 .000

REFERENCE INFORMATION: SREF 2650.0000 S0.17. LREF 1250.0000 BREF 1250.0000 YMAP 1552.0000 ZMAP 1552.0000 SCALE 447.0000

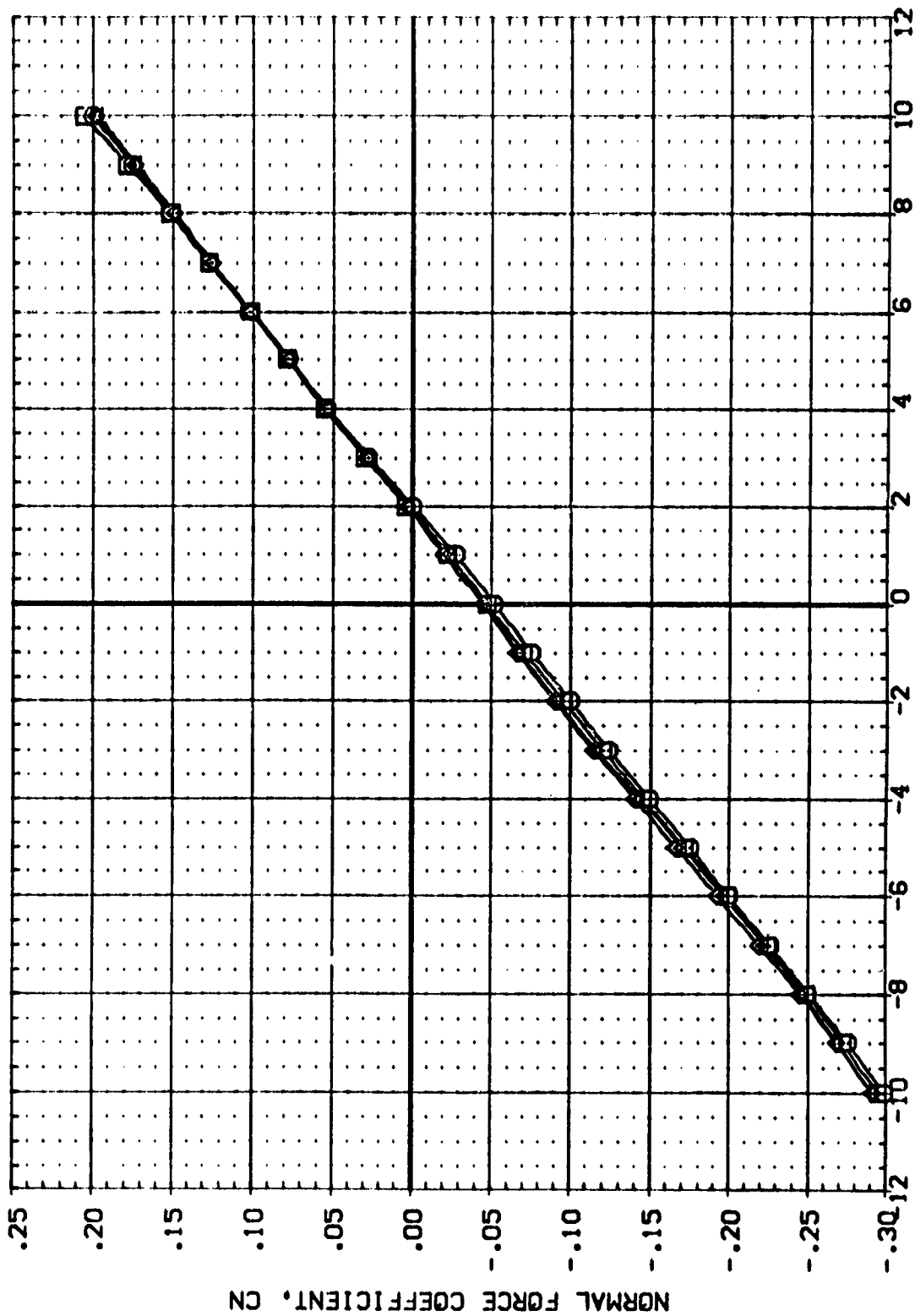


EFFECT OF UNSYMMETRICAL SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO64) AEDC VA-422(A-57); CR8/ET V/80TH SR8
 (RTLO70) AEDC VA-422(A-57); CR8/ET V/80TH SR8
 (RTLO74) AEDC VA-422(A-57); CR8/ET V/80TH SR8
 (RTLO78) AEDC VA-422(A-57); CR8/ET V/80TH SR8

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 1.200 1.760 .000 SREF 2690.0000 50 FT.
 2.100 1.760 .000 LREF 1260.3000 IN.
 2.300 1.760 .000 BREF 1260.3000 IN.
 3.200 1.760 .000 XT-SP 1552.0000 IN.
 VREF 447.0000 IN.
 ZREF 447.0000 IN.
 SCALE 447.0000

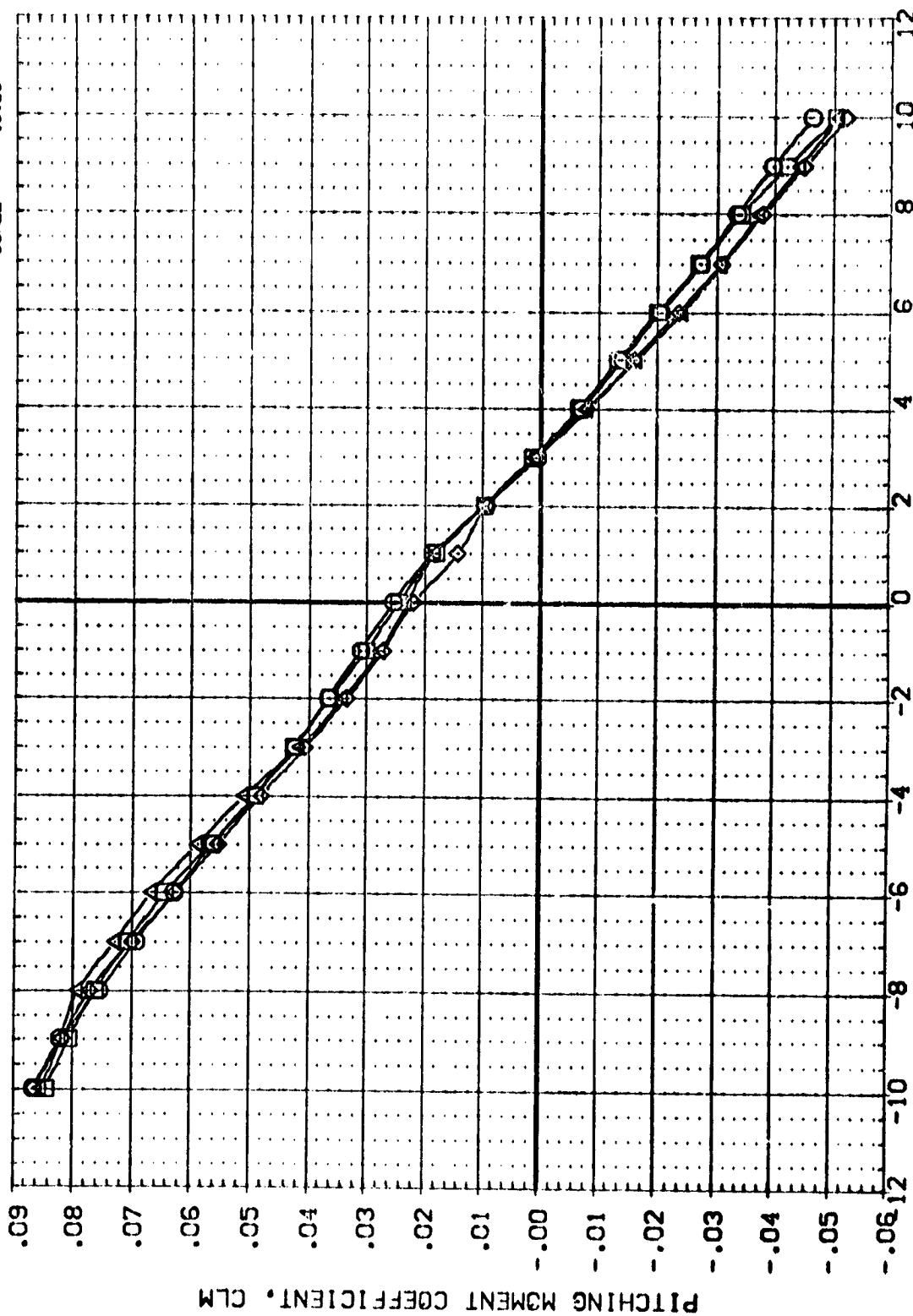


EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

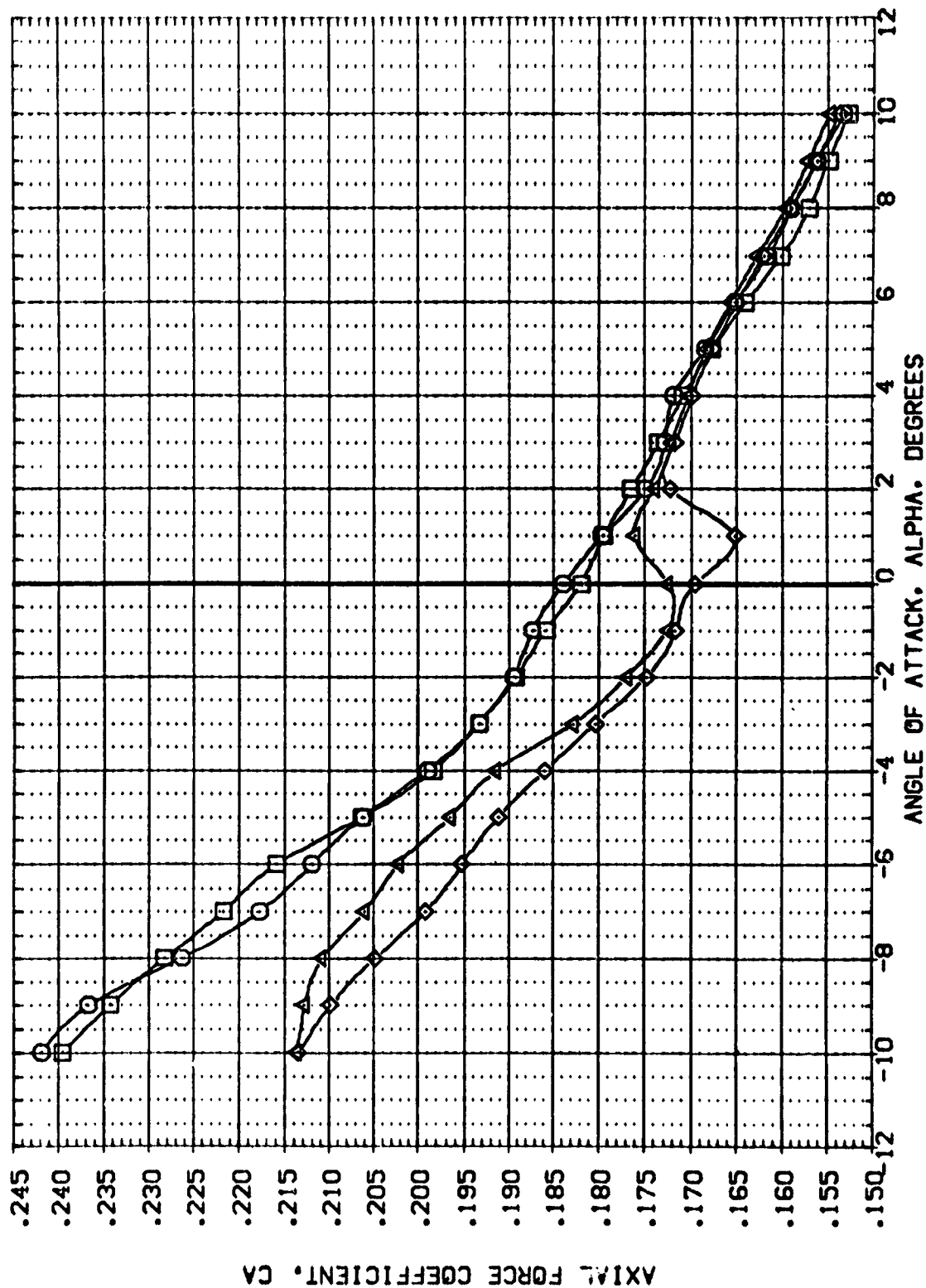
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO64) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (RTLO73) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (RTLO74) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (RTLO78) AEDC VA-422(A-57): ORB/ET V/80TH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 1.200 1.760 .000 SREF 2630.0000
 2.100 1.760 .000 LREF 1280.0000
 2.300 1.760 .000 SREF 1280.0000
 3.200 1.760 .000 X-PRP 1052.0000
 Y-PRP 447.0000
 Z-PRP 447.0000
 SCALE .0100



EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACTER. (RV/L=1.76)
 (A)MACH = 4.50
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(RTLO54)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	1.200	1.760	.000	.000	SREF 2650.0000
(RTLO70)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.100	1.760	.000	.000	LREF 250.3000
(RTLO74)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.300	1.760	.000	.000	BREF 250.3000
(RTLO78)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	3.200	1.760	.000	.000	XMREF 1052.0000
						YMREF .0000
						ZMREF 447.0000
						SCALE .0100
						SD.FT. IN. N. XT IN. YT IN. ZT IN.

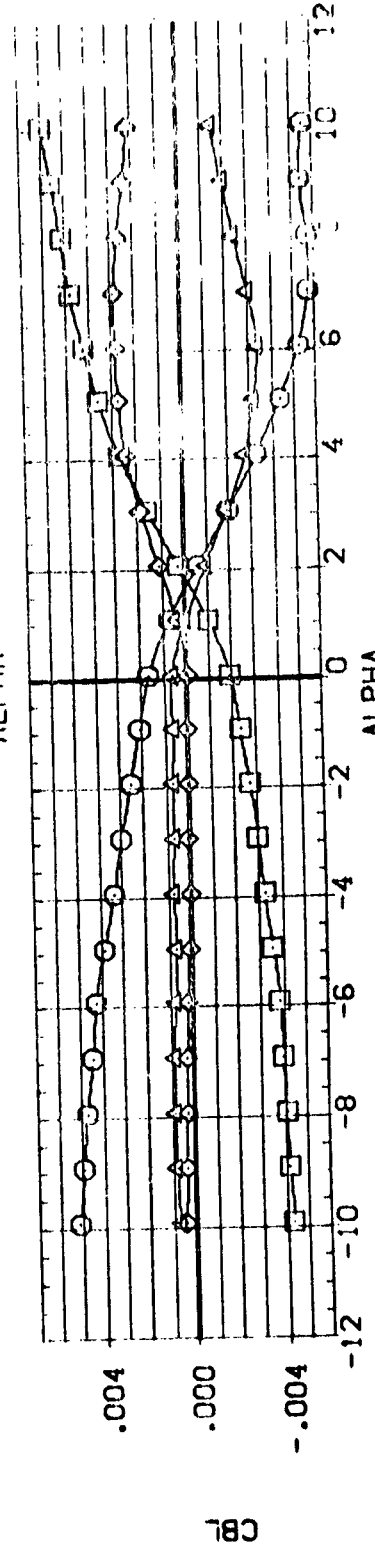
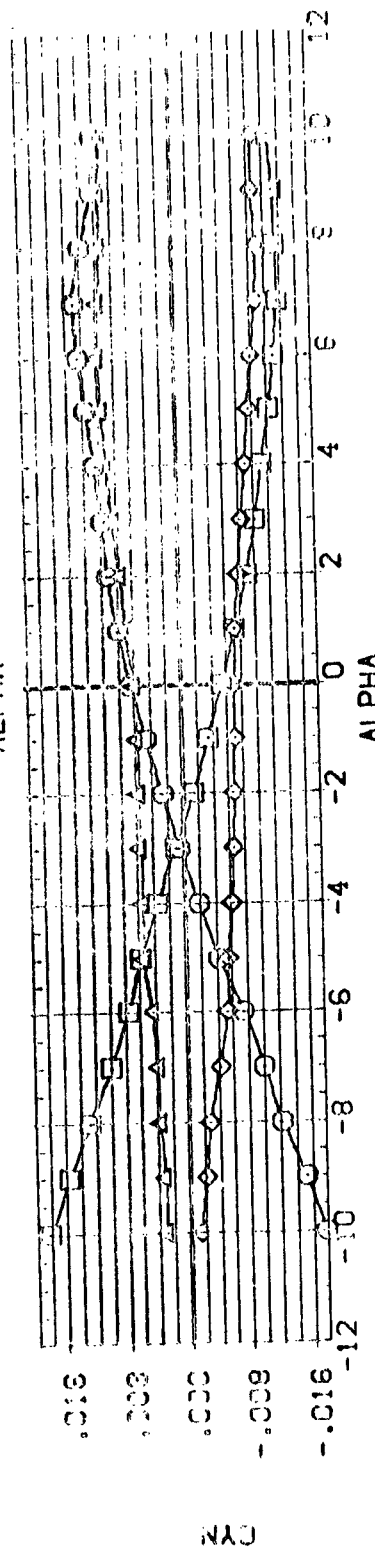
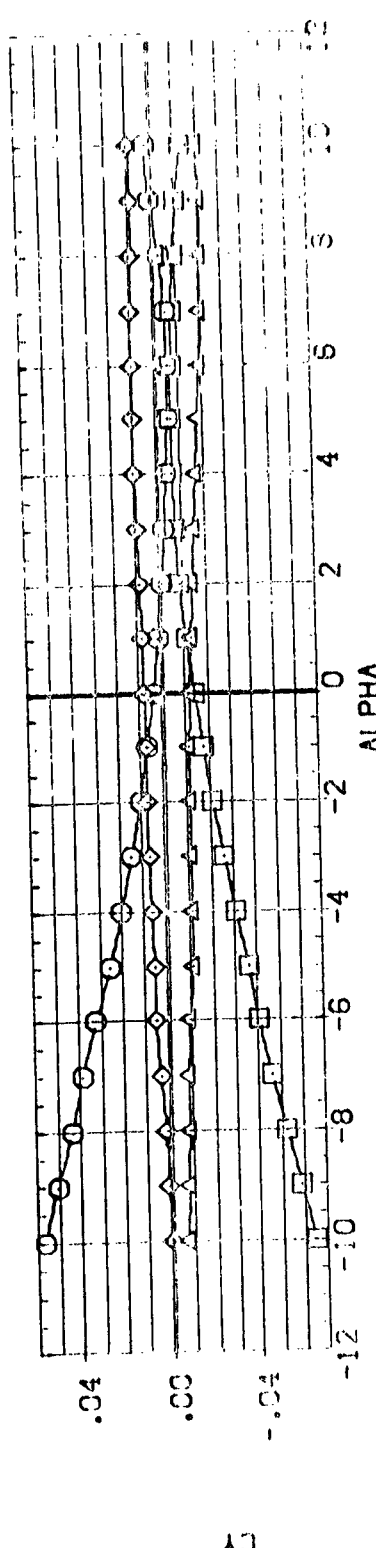


EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

(A)MACH = 4.50

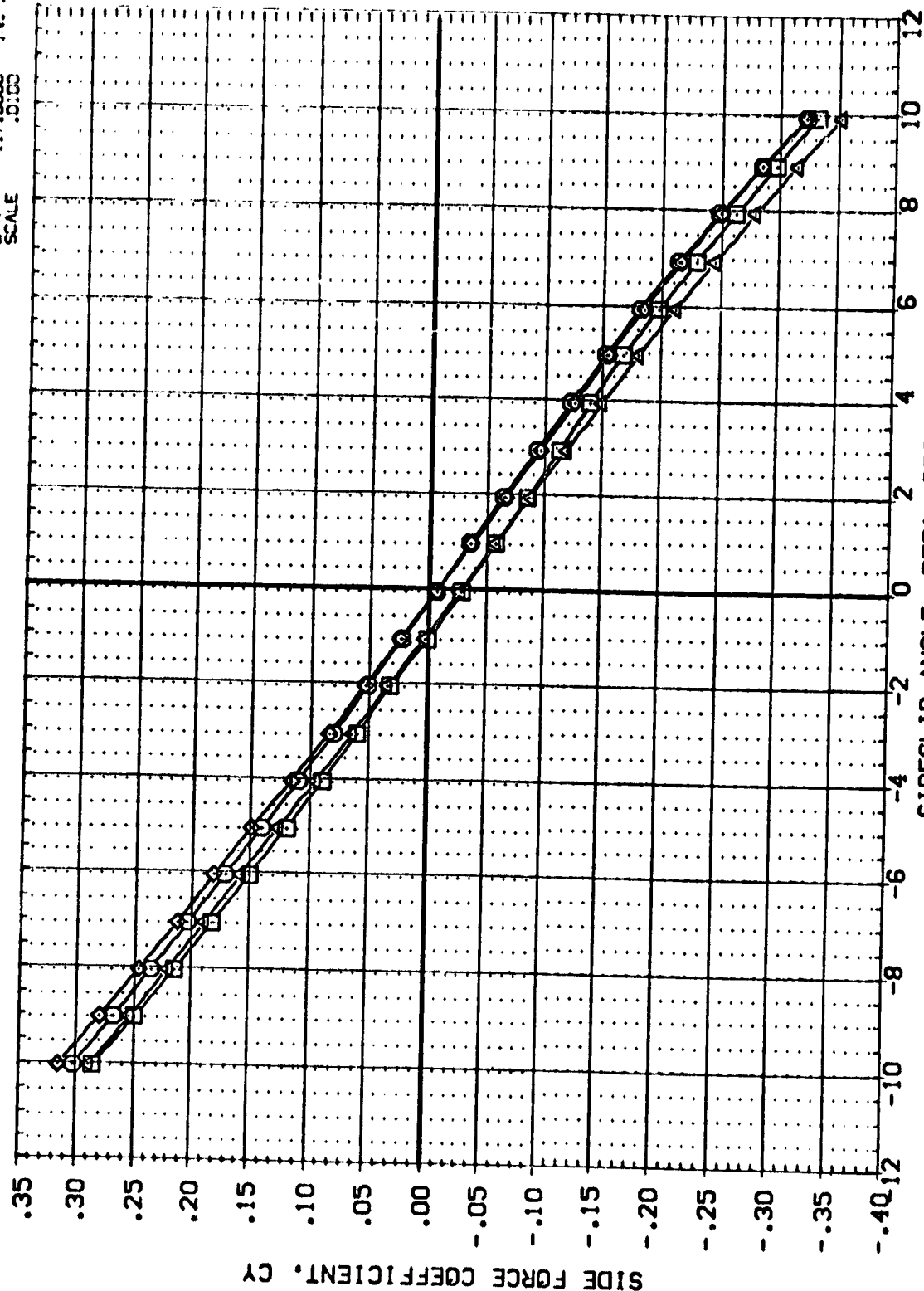
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RT-054] AEDC VA-422(1A-57): CRB/ET V/80TH SRB
 [RT-070] AEDC VA-422(1A-57): CRB/ET V/80TH SRB
 [RT-074] AEDC VA-422(1A-57): CRB/ET V/80TH SRB
 [RT-078] AEDC VA-422(1A-57): CRB/ET V/80TH SRB

SRBPOS RV/L PT-JET BET REFERENCE INFORMATION
 1.200 1.750 .000 SREF 2550 0000 SCF 1
 2.100 1.750 .000 SREF 2550 0000 SCF 2
 2.300 1.750 .000 SREF 2550 0000 SCF 3
 3.200 1.750 .000 SREF 2550 0000 SCF 4
 SCALE 450 0000



EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACT. (RV/L=1.75)
 (A)MACH = 4.50
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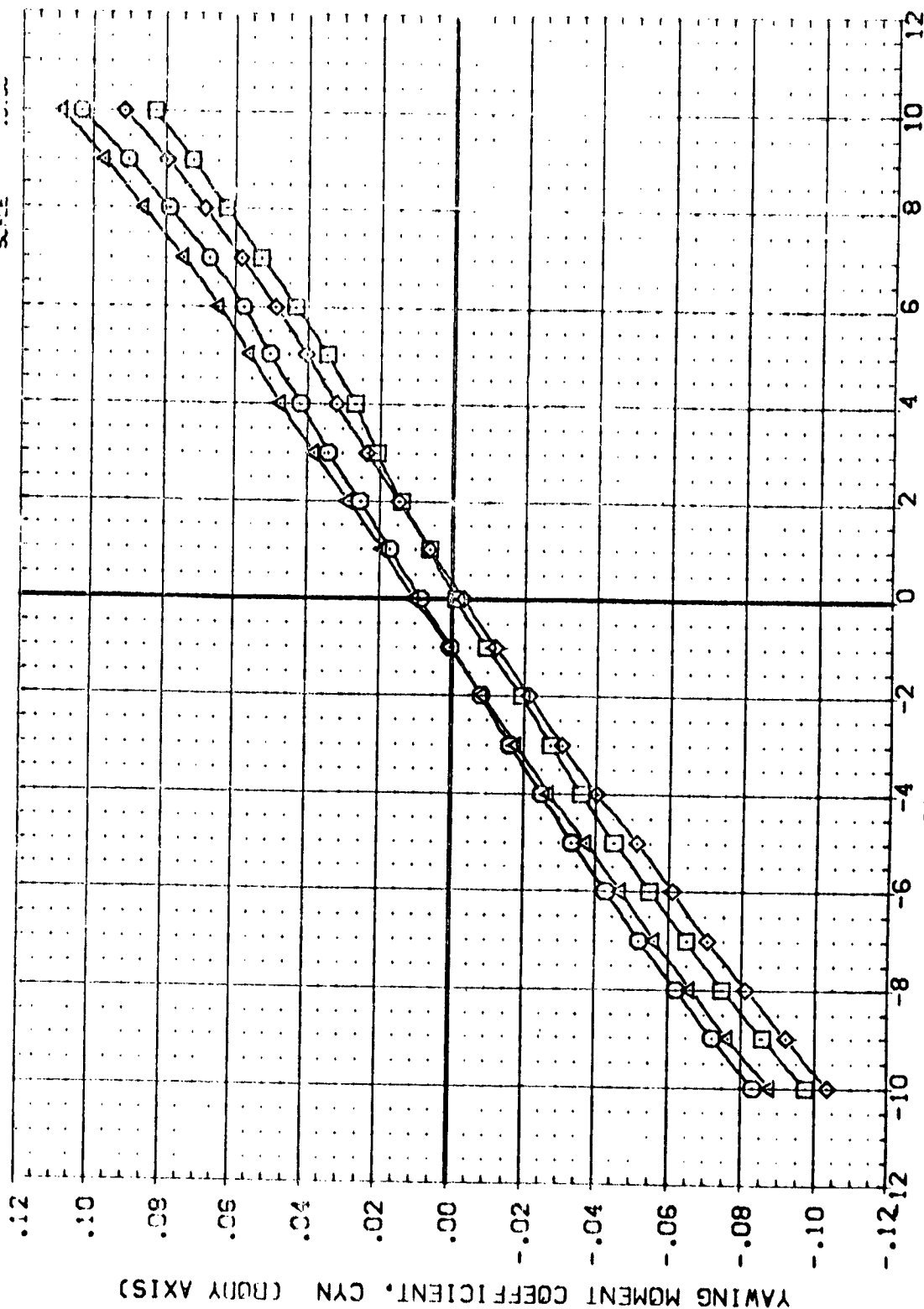
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RN/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(RTLO65)	□	AEDC VA-422(A-S7)	CRB/ET V/BOTH SRB	1.200	1.760	.000	.000	SREF	2690.0000	SC.FT.			
(RTLO71)	□	AEDC VA-422(A-S7)	CRB/ET V/BOTH SRB	2.100	1.760	.000	.000	LREF	1290.3000	IN.			
(RTLO75)	□	AEDC VA-422(A-S7)	CRB/ET V/BOTH SRB	3.300	1.760	.000	.000	SREF	1290.3000	IN.			
(RTLO79)	□	AEDC VA-422(A-S7)	CRB/ET V/BOTH SRB	3.200	1.760	.000	.000	XREF	1052.0000	IN.			
								YREF	5000	IN.			
								ZREF	447.0000	IN.			
								SCALE	.0100				



EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACT. (RN/L=1.76)
 (A)MACH = 4.50
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PTL055) AEDC VA-422(A-57); ORB/ET V/BOTH SRB
 (PTL071) AEDC VA-422(A-57); ORB/ET V/BOTH SRB
 (PTL075) AEDC VA-422(A-57); ORB/ET V/BOTH SRB
 (PTL079) AEDC VA-422(A-57); ORB/ET V/BOTH SRB

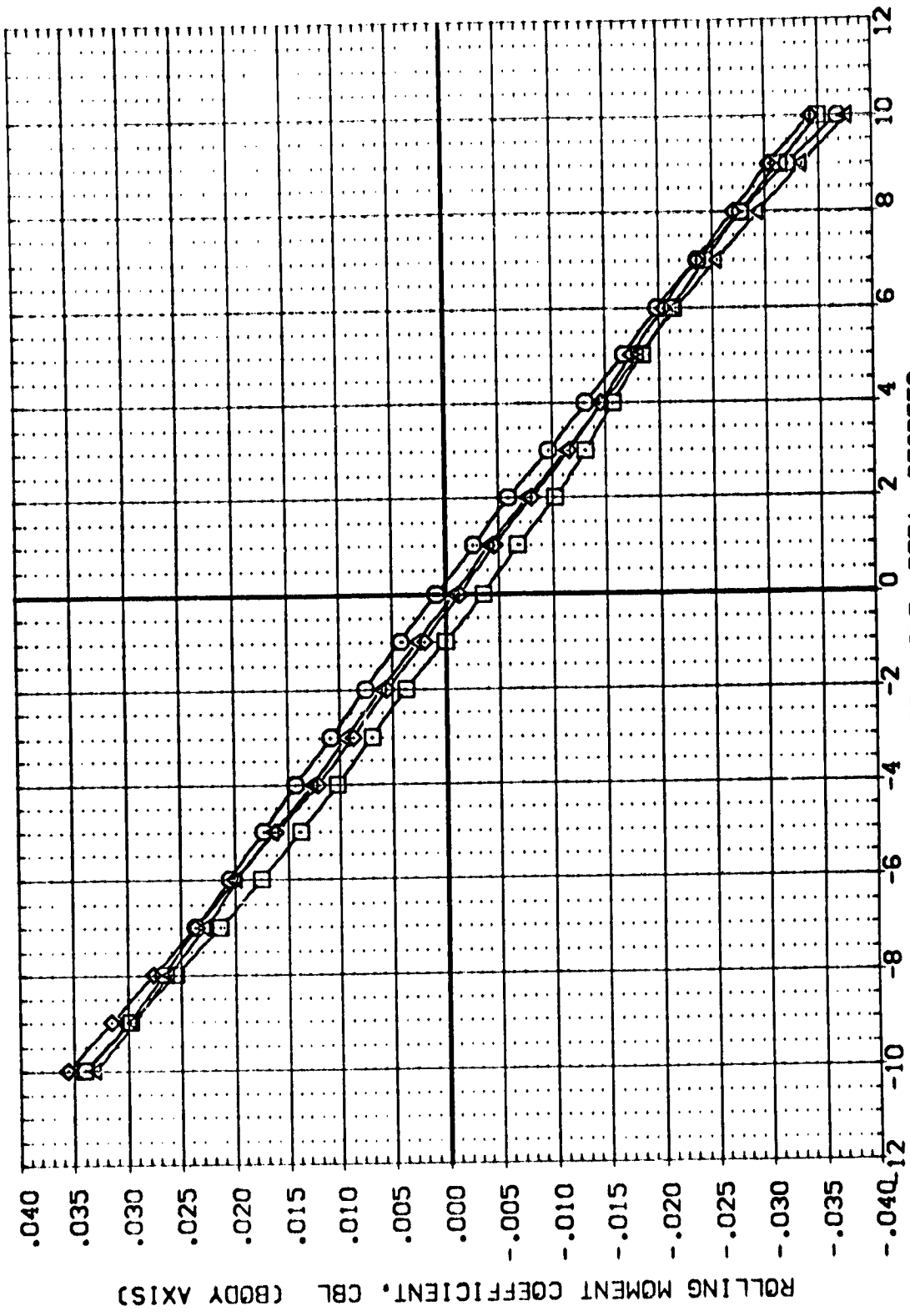
SRBPOS RV- PT-JET ALPHA REFERENCE INFORMATION
 1.200 1.750 .000 SREF 2650.0000 SCALE
 2.100 1.750 .000 LREF 2650.0000
 2.300 1.750 .000 BREF 2650.0000
 3.200 1.750 .000 XREF 2650.0000
 497.0000 ZREF 497.0000
 .0100 SCALE



EFFECT OF UNSYMMETRICAL SRB SEPARATION W/O PLUMES ON O/ET CHARACT. ($\beta/V/L=1.75$)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION	SC.F.
(R'L065)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	1.200	1.760	.000	.000	SREF 2690.0000	26.9
(R'L071)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	2.100	1.760	.000	.000	LREF 1290.0000	12.9
(R'L075)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	2.300	1.760	.000	.000	SREF 1290.0000	12.9
(R'L079)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	3.200	1.760	.000	.000	YREF 1290.0000	12.9
						YREF 1290.0000	12.9
						SCALE 447.0000	44.7



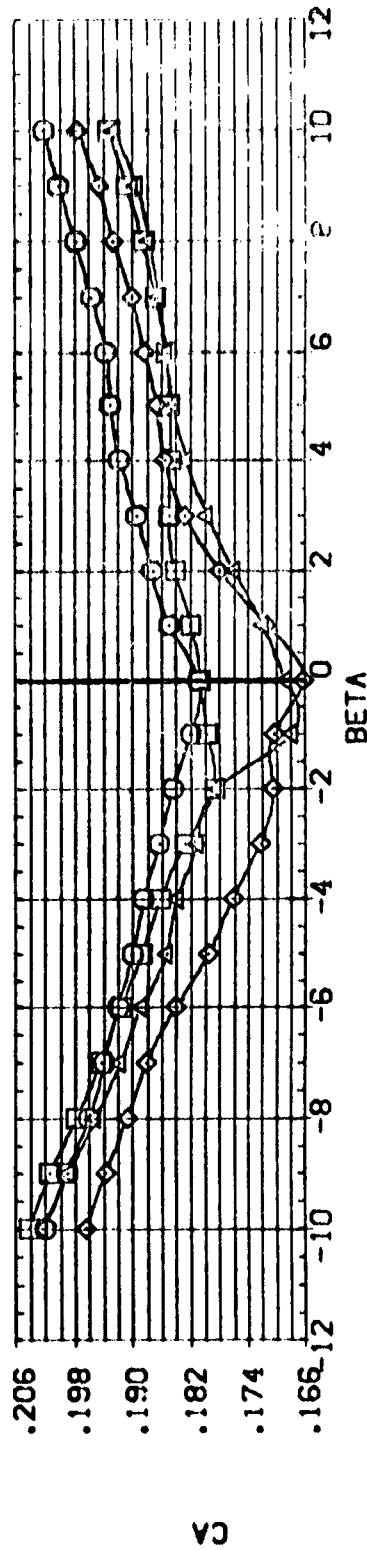
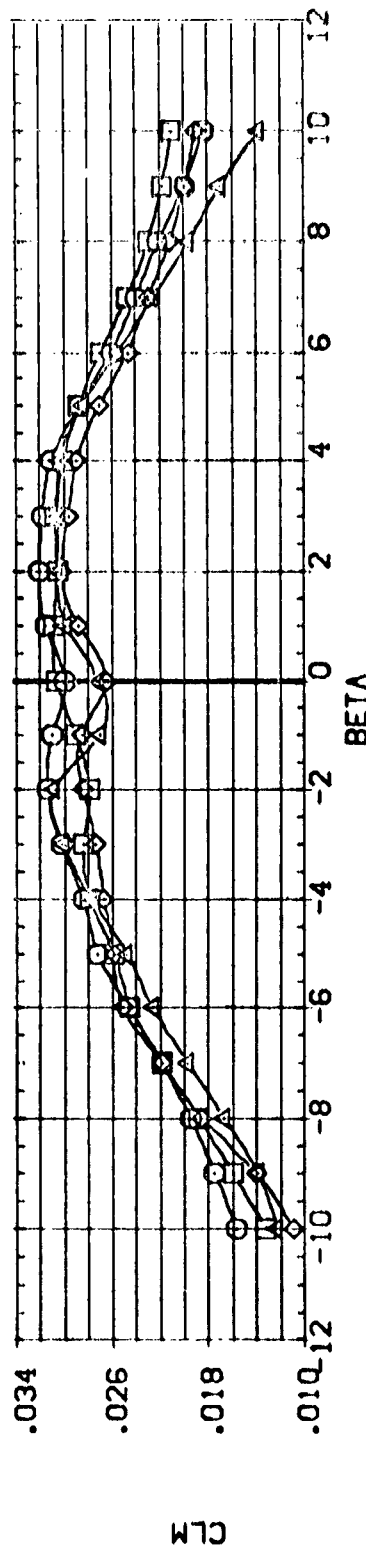
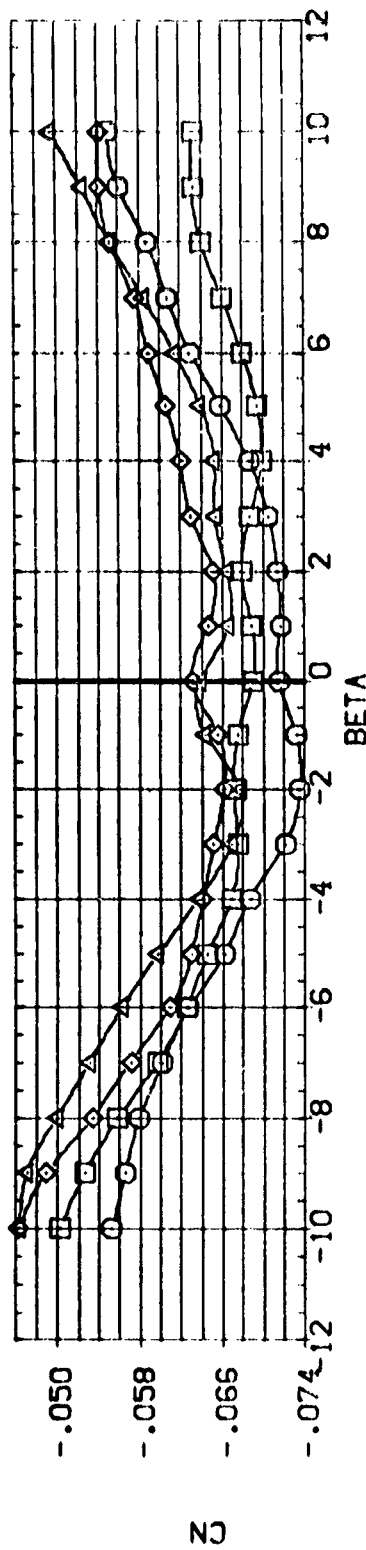
EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACTER. (RN/L=1.76)

(A)MACH = 4.50

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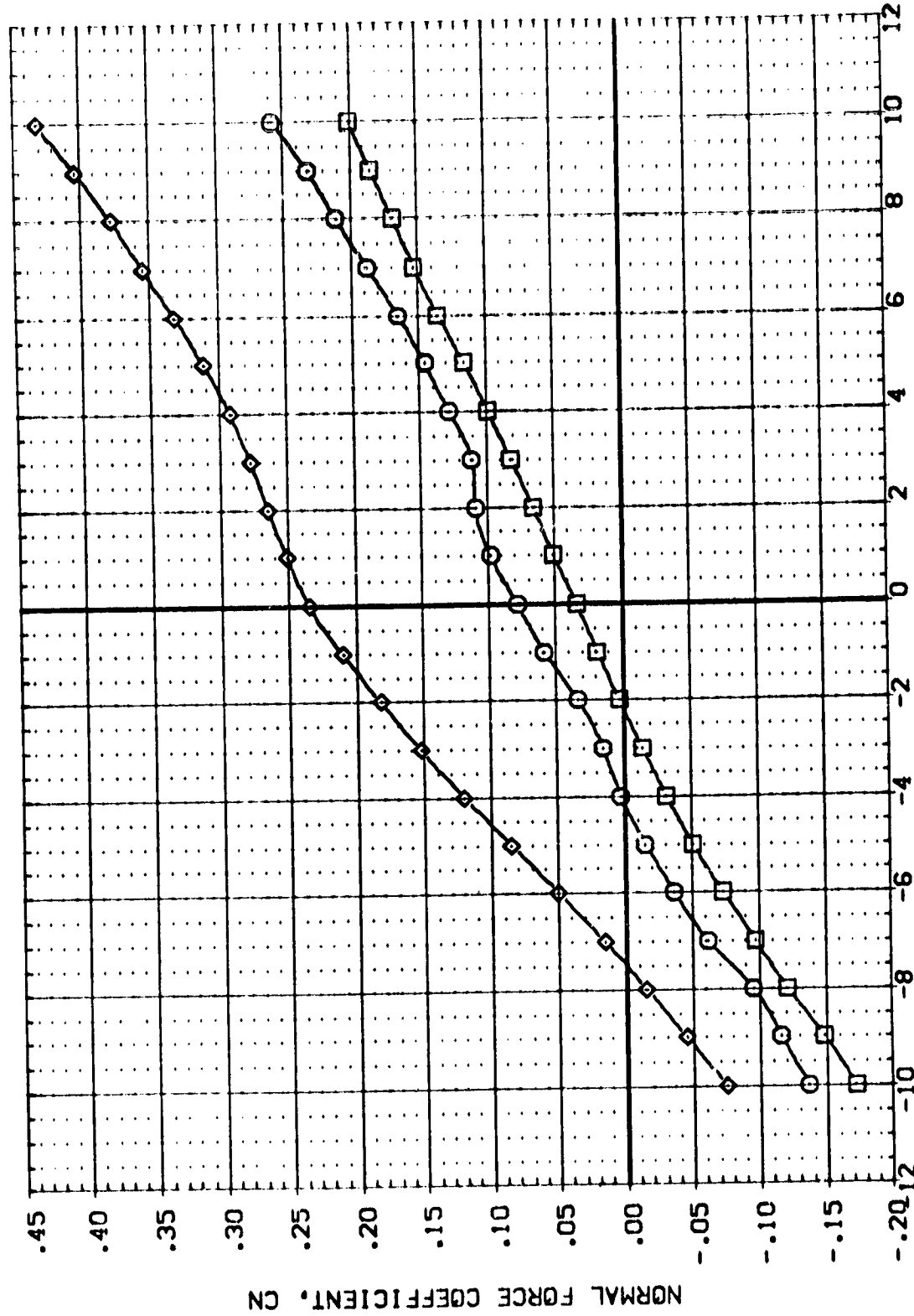
DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTL065)	AEDC VA-422(1A-57): ORB/ET V/BOTH SRB	1.200	1.760	.000	.000	SRF 2650.0000
(RTL071)	AEDC VA-422(1A-57): ORB/ET V/BOTH SRB	2.100	1.760	.000	.000	LRF 2650.0000
(RTL075)	AEDC VA-422(1A-57): ORB/ET V/BOTH SRB	2.300	1.760	.000	.000	BREF 2650.0000
(RT079)	AEDC VA-422(1A-57): ORB/ET V/BOTH SRB	3.200	1.760	.000	.000	XREF 2650.0000
						YREF 2650.0000
						ZREF 2650.0000
						SCALE 1.000



EFFECT OF UNSYMMETRICAL SRB SEPARATION W/NO PLUMES ON O/ET CHARACTERISTICS (MACH = 4.50)

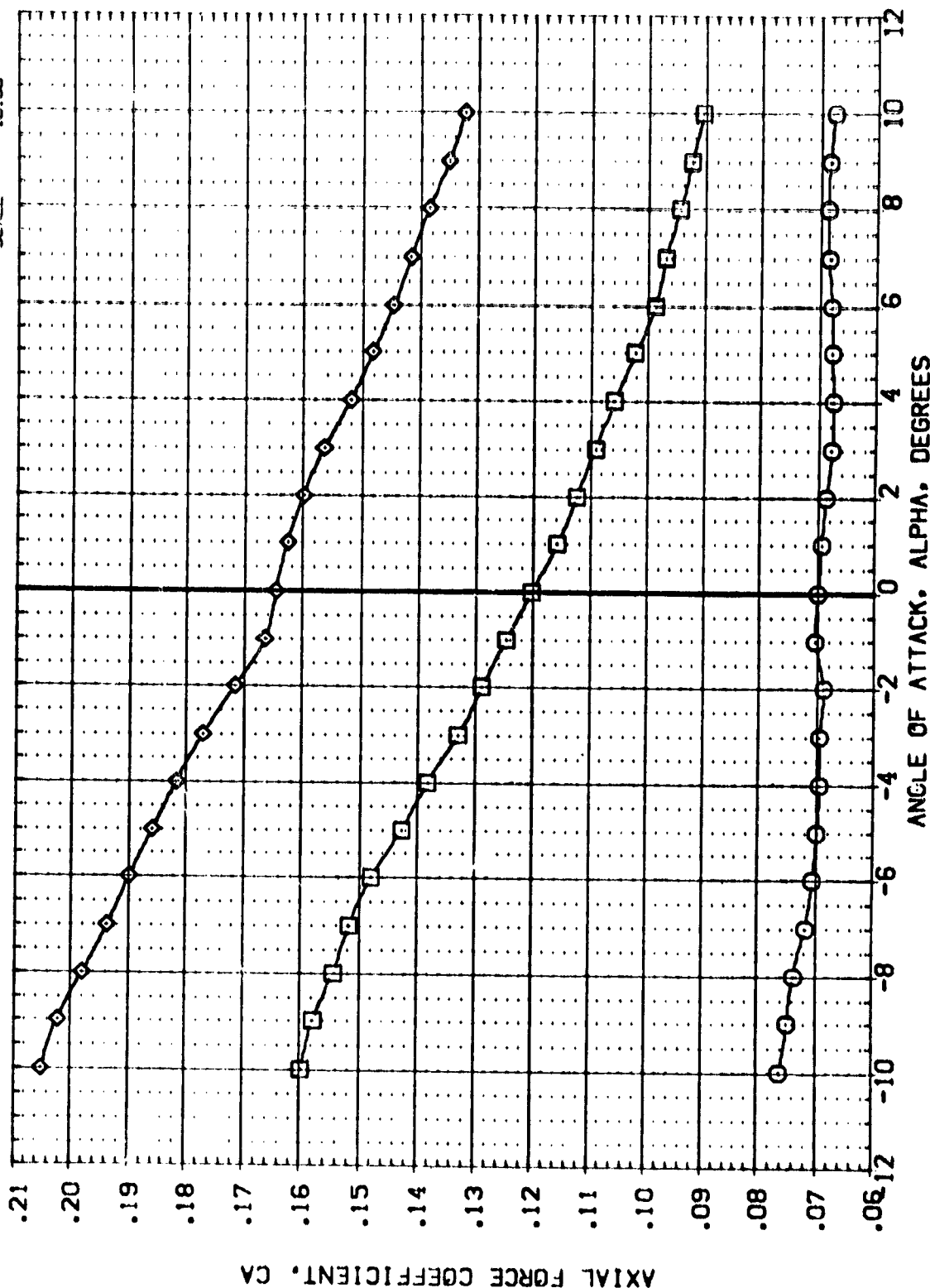
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RN/L	PT-JET	BETA	REFERENCE INFORMATION	
(RTLOC7)	□	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.100	1.400	1500.000	.000	SREF	2590.0000	SO. F.
(RTLOC5)	◇	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.200	1.400	1500.000	.000	LREF	1250.0000	1.400
(RTLOC3)	◇	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.300	1.400	1500.000	.000	BREF	1250.0000	1.400
								XREF	1250.0000	1.400
								YREF	1250.0000	1.400
								ZREF	1250.0000	1.400
								SCALE	447.0000	1.400



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRBPOS		RV/L		PT-JET		BETA		REFERENCE INFORMATION	
[RTLO07]	[RTLO15]	[RTLO23]	AECD VA-422(1A-57):	CRB/ET V/RIGHT SRB	.100	.400	1500.000	.000	SRB	2500.0000	50. FT.		
			AECD VA-422(1A-57):	CRB/ET V/RIGHT SRB	.200	.400	1500.000	.000	SRB	1250.0000	25. FT.		
			AECD VA-422(1A-57):	CRB/ET V/RIGHT SRB	.300	.400	1500.000	.000	SRB	1250.0000	25. FT.		
										457.0000	25. FT.		
										SCALE			



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RV/L=1.4)

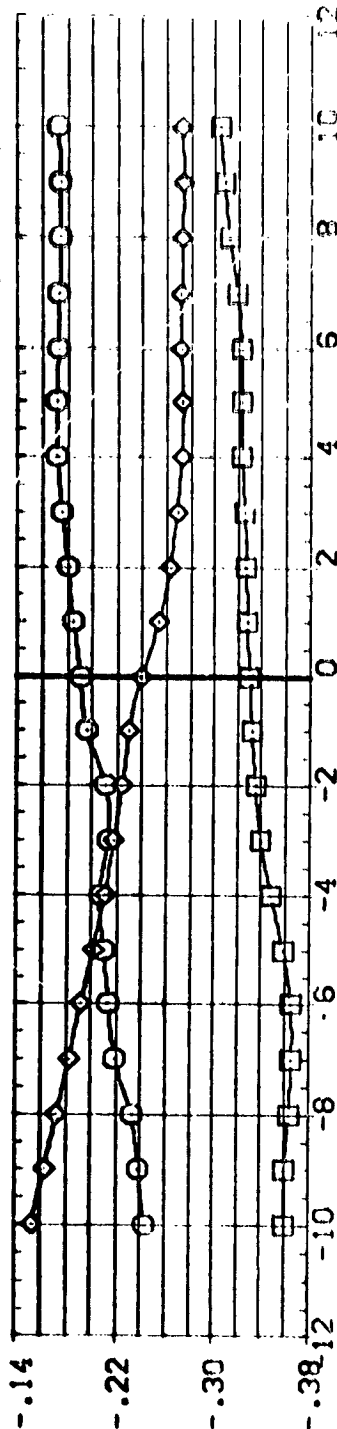
(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

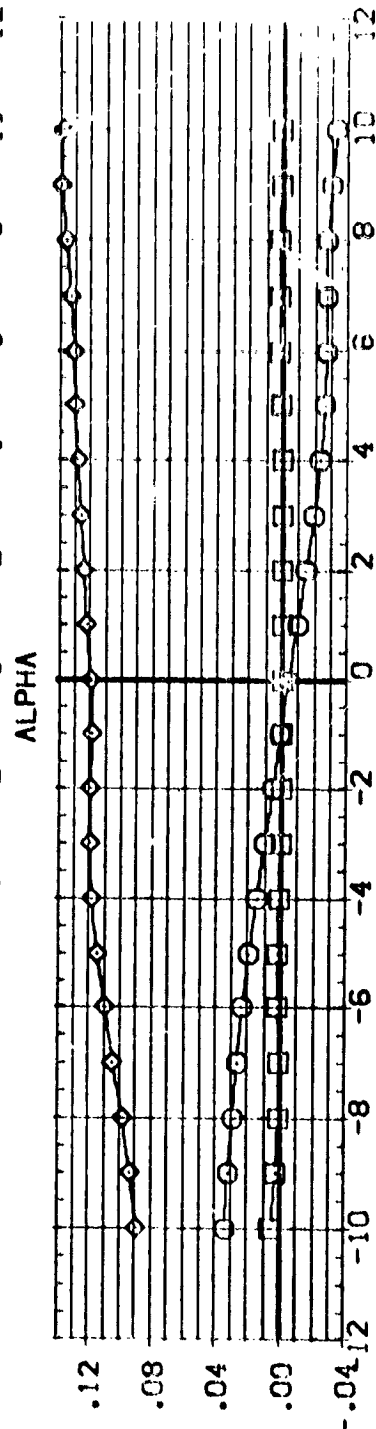
(RTLO07) AEDC VA-422(1A-57): SRB/ET V/RIGHT SRB
 (RTLO15) AEDC VA-422(1A-57): SRB/ET V/RIGHT SRB
 (RTLO23) AEDC VA-422(1A-57): SRB/ET V/RIGHT SRB

SRB NOS RVL PT-JE: BETA
 .100 1.400 1500.000 .000
 .200 1.400 1500.000 .000
 .300 1.400 1500.000 .000

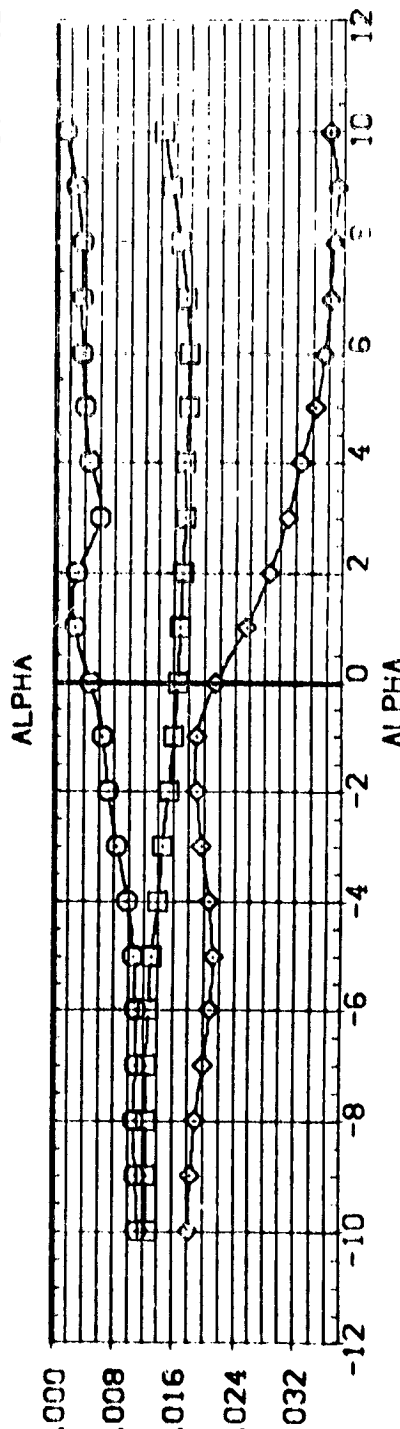
REFERENCE INFORMATION:
 SRB 2650.000 50.7
 LREF 1250.000
 BREF 1250.000
 XREF 152.000
 YREF 152.000
 ZREF 447.000
 SCALE 1.000



CY



CYN

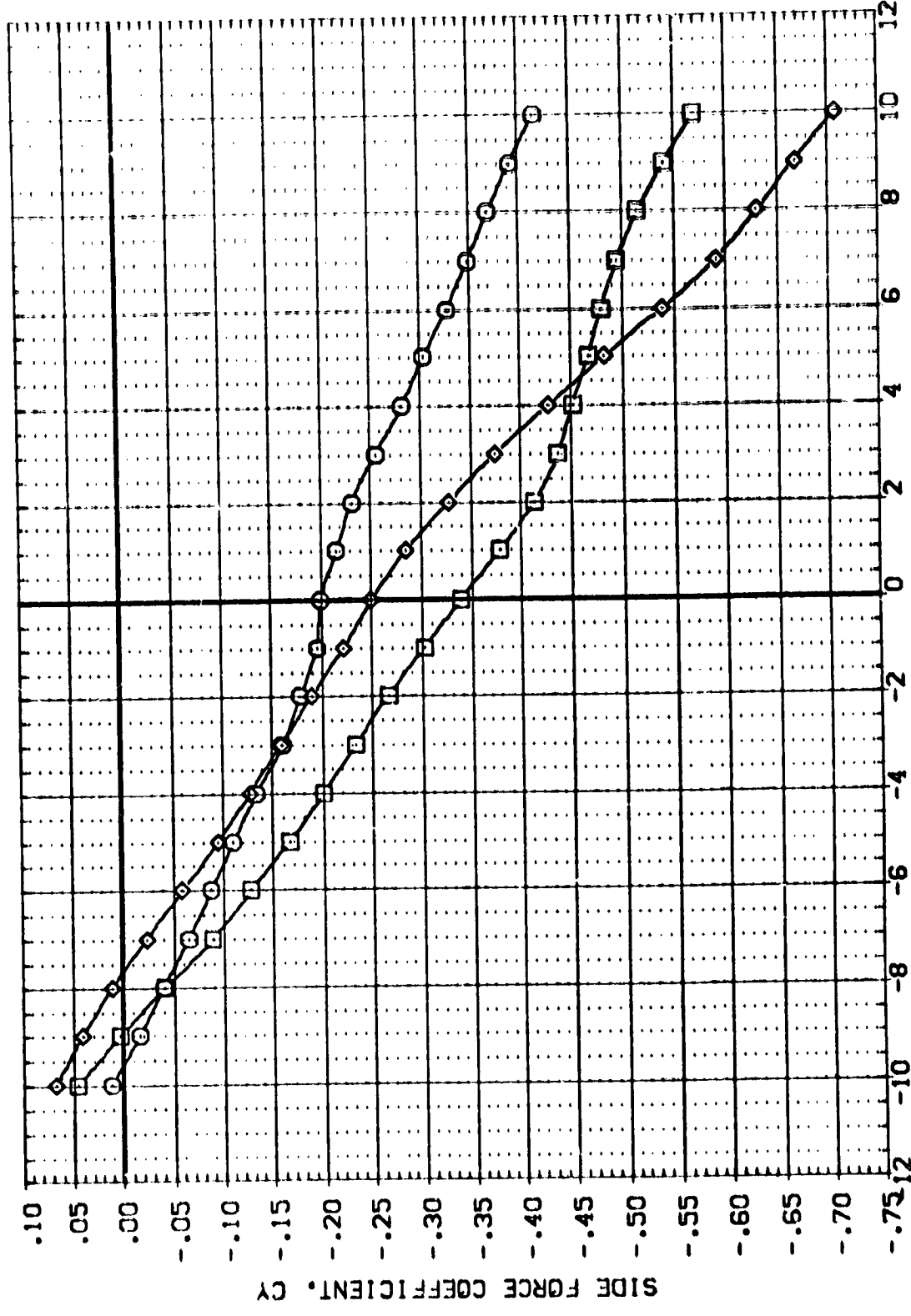


CBL

EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (SRB/L=1.4)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRSPOS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
[RTL008]	AEDC VA-422(A-57). ORB/ET V/R/IGT SRB	.100	1.400	500.000	.000	SRB
[RTO06]	AEDC VA-422(A-57). ORB/ET V/R/IGT SRB	.200	1.400	500.000	.000	SRB
[RLOC24]	AEDC VA-422(A-57). ORB/ET V/R/IGT SRB	.300	1.400	500.000	.000	SRB



EFFECT OF ONLY ONE SRB SEPARATION ON Q/ET CHARACT. (RN/L=1.4)

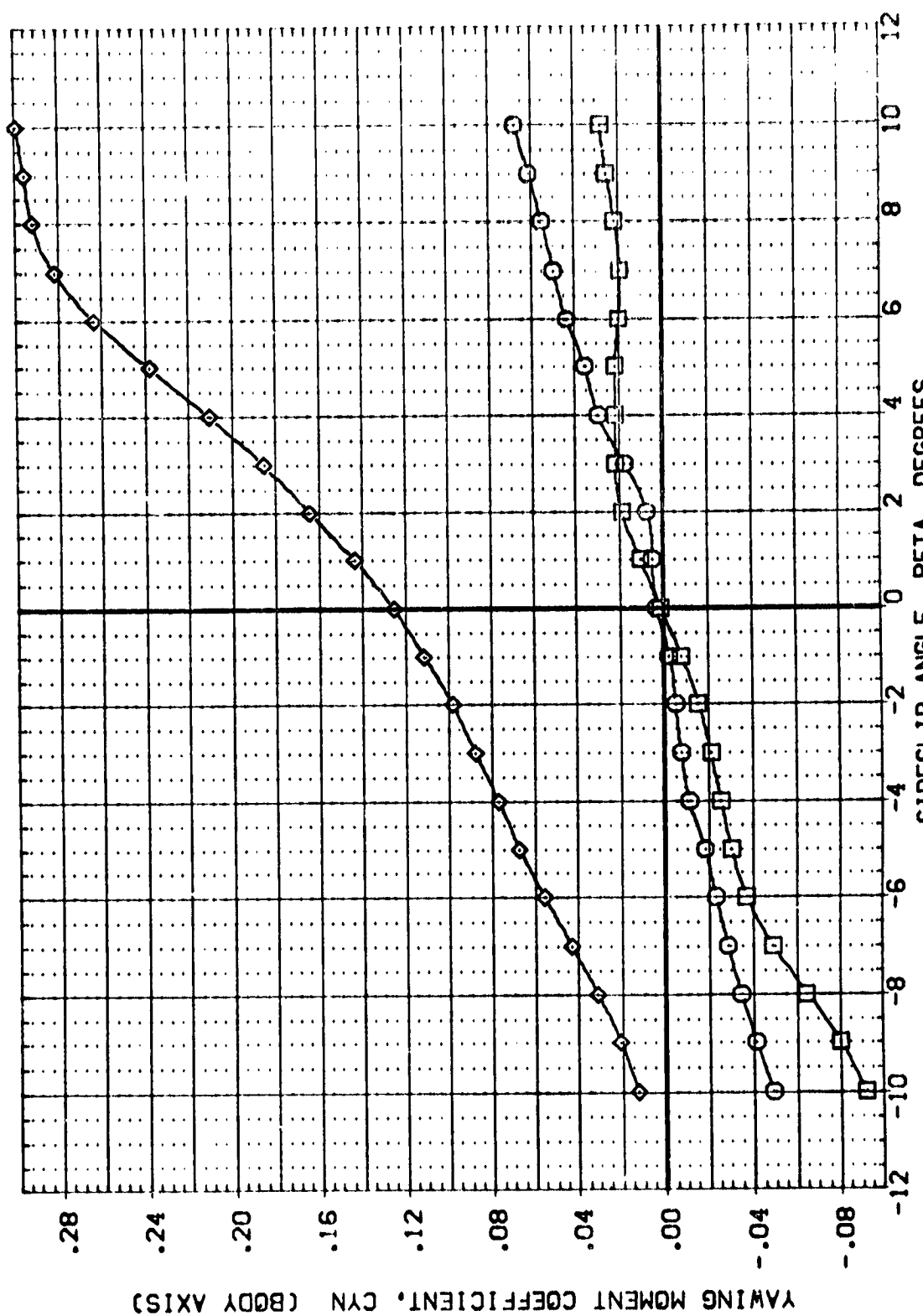
CAJ MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTL008) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTL016) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTL024) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

SRB/FOS RV/L PT-JET ALPHA REFERENCE INFORMATION

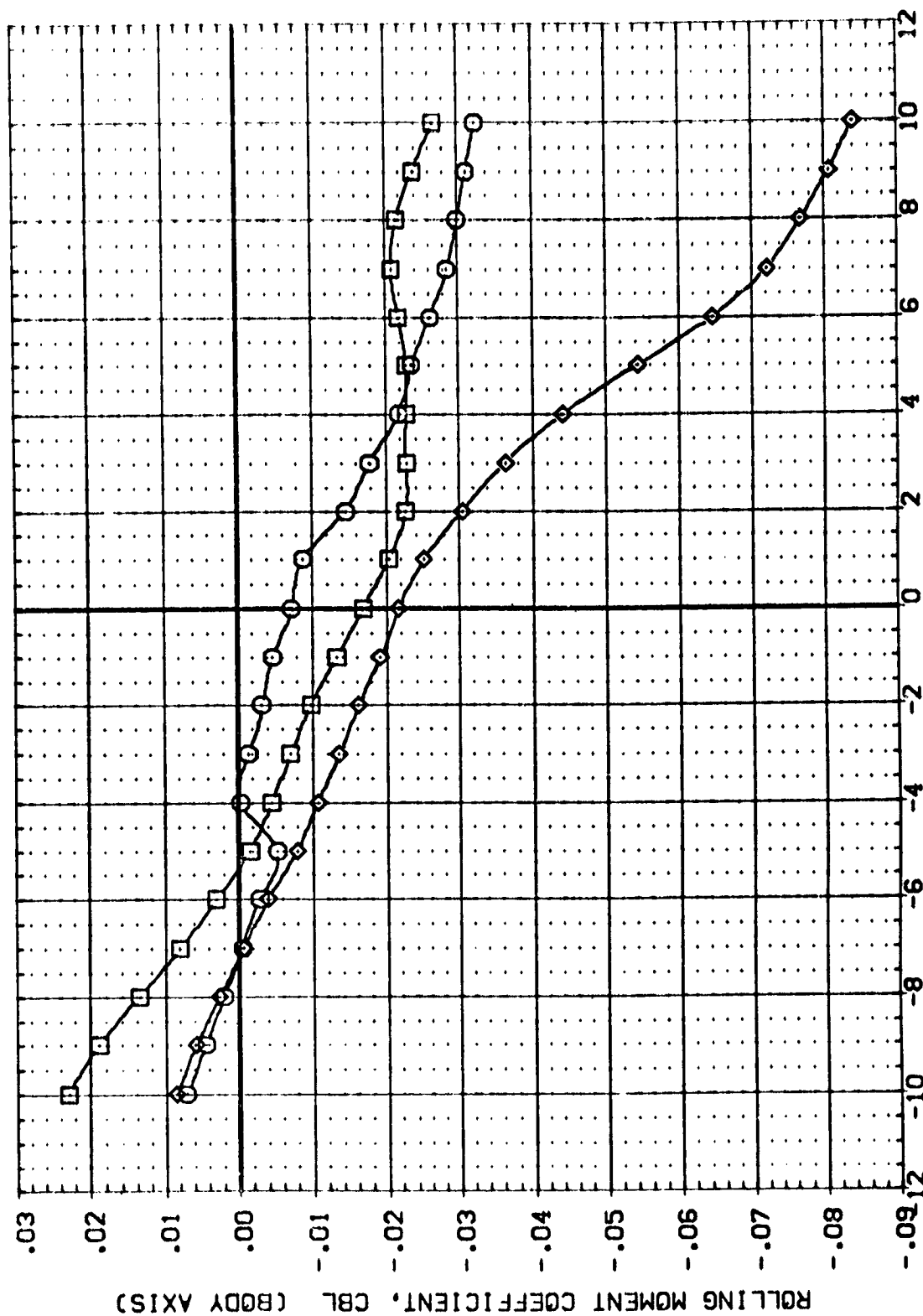
100 1.400 1500.000 .000 SREF 2650.0000 SD.FT.
 200 1.400 1500.000 .000 LREF 1290.3000
 300 1.400 1500.000 .000 BREF 1290.3000
 X-REF 1052.0000
 Y-REF .0000
 Z-REF 447.0000
 SCALE .0100



EFFECT OF ONLY ONE SRB SEPARATION ON C_{YN} CHARACTER. (RN/L=1.4)

(MACH = 4.50)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RT-008)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.100	1.400	1500.000	.000	SREF 2690.0000
(RT-016)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.200	1.400	1500.000	.000	LREF 1290.3000
(RT-024)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.300	1.400	1500.000	.000	BREF 1290.3000
						WREF 1052.1000
						VMREF 1000.0000
						VMREF 447.0000
						SCALE 1.0000



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.4)

(A) MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO08)
(RTLO16)
(RTLO24)

AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB

SRBPOS

.100
.200
.300

RN/L

1.400
1.400
1.400

PT-JET

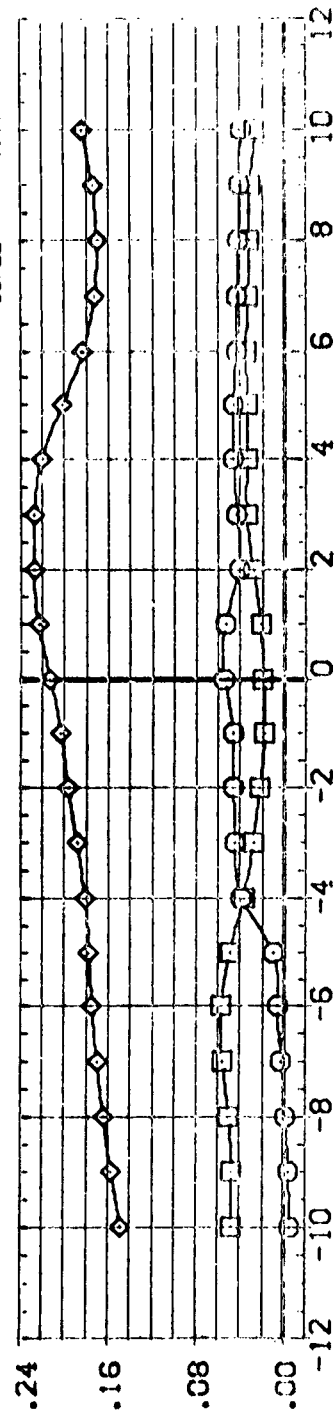
1500.000
1500.000
1500.000

ALPHA

.000
.000
.000

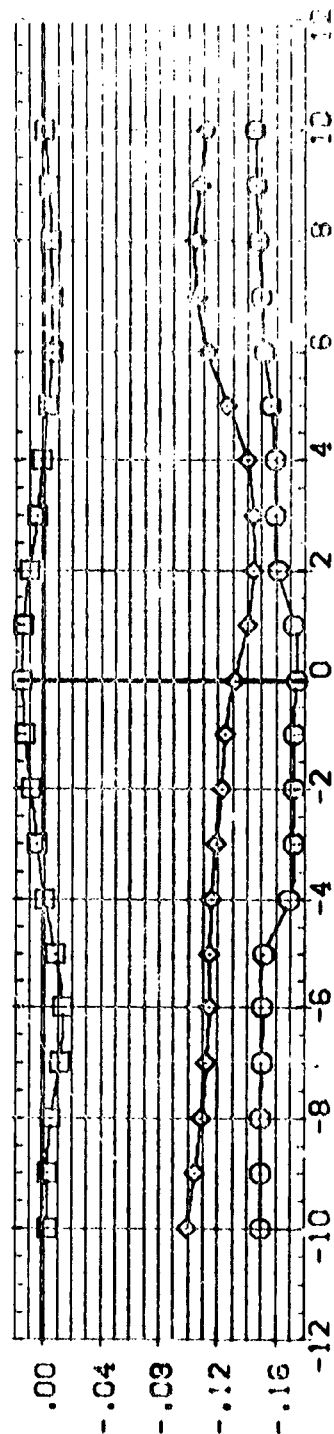
REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.
LREF 1260.3000 IN.
BREF 1260.3000 IN.
XGRP 1052.0000 IN. XT
YGRP .0000 IN. YT
ZGRP 447.0000 IN. ZT
SCALE .0100



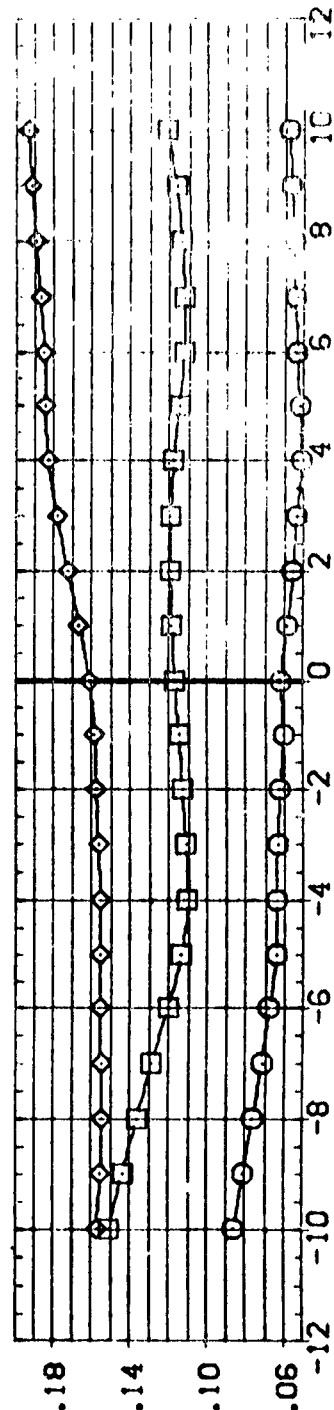
Z

BETA



W

BETA



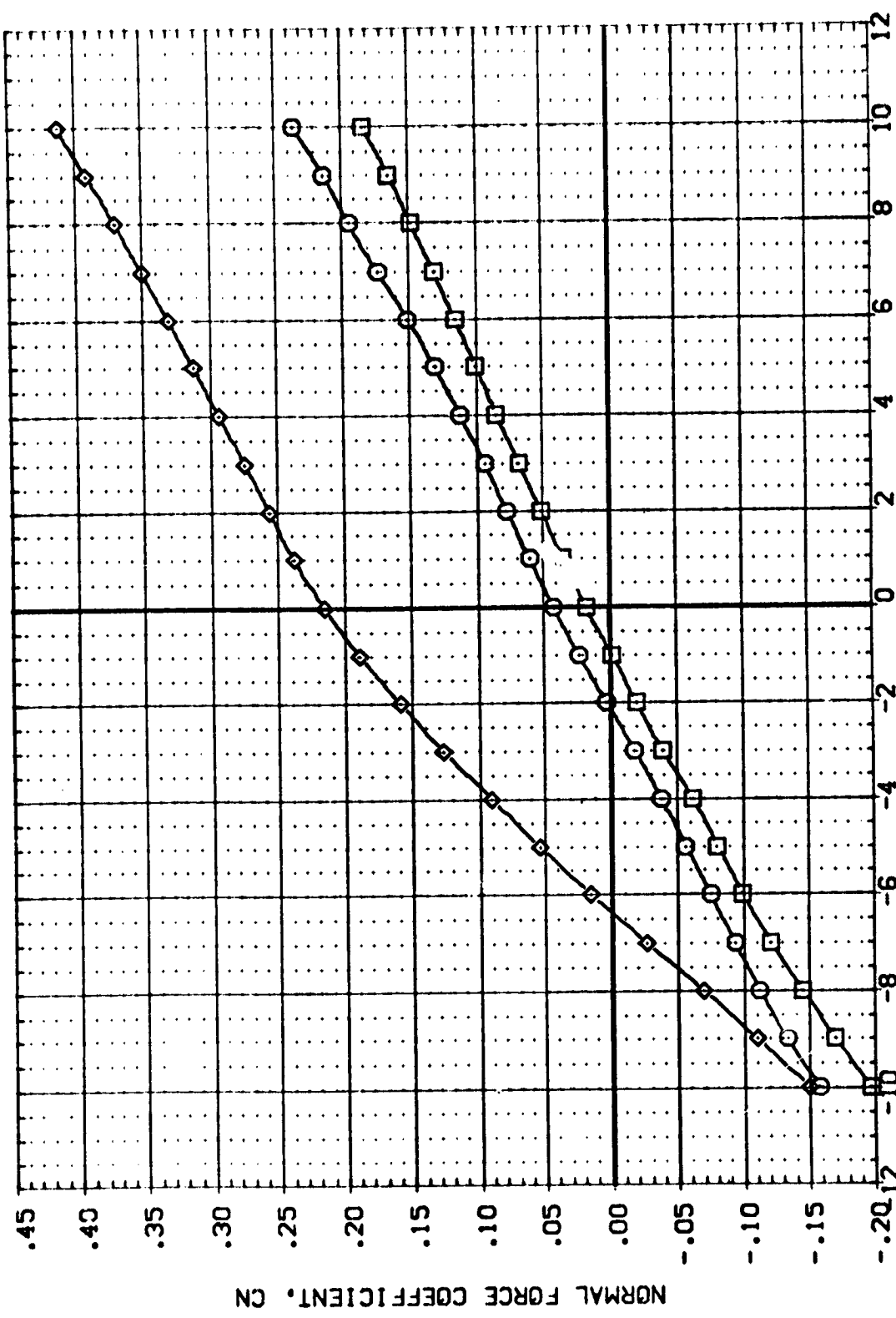
V

BETA

EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACT. (RN/L=1.4)

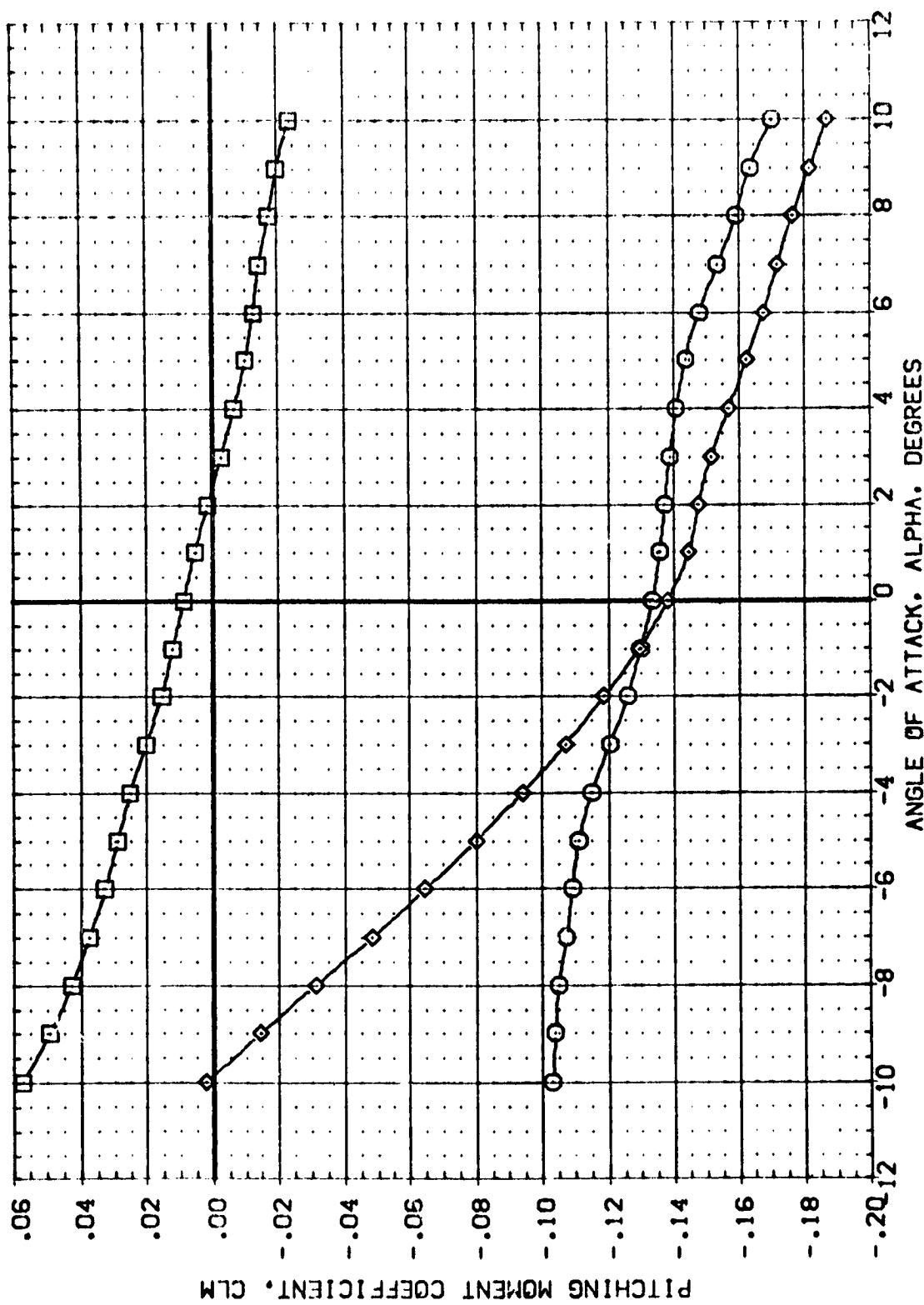
(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(PTL013)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.100	1.760	1500.000	.000	SREF 2690.0000 SQ.FT.
(PTL021)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	LREF 1290.3000 N.
(PTL029)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	BREF 1290.3000 N.
						XMRP 1052.0000 N.
						YMRP 447.0000 N.
						ZMRP 447.0100 N.
						SCALE



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=1500)
 (A) MACH = 4.50

SRBPOS	RVL	PT-JET	BETA	REFERENCE INFORMATION	SO.FT.
.100	1.760	500.000	.000	SREF	2690.0000
.200	1.760	500.000	.000	LREF	1290.3000
.300	1.760	500.000	.000	BREF	1290.3000
				XREF	1052.0000
				YREF	0.0000
				ZREF	447.0000
				SCALE	0.0000

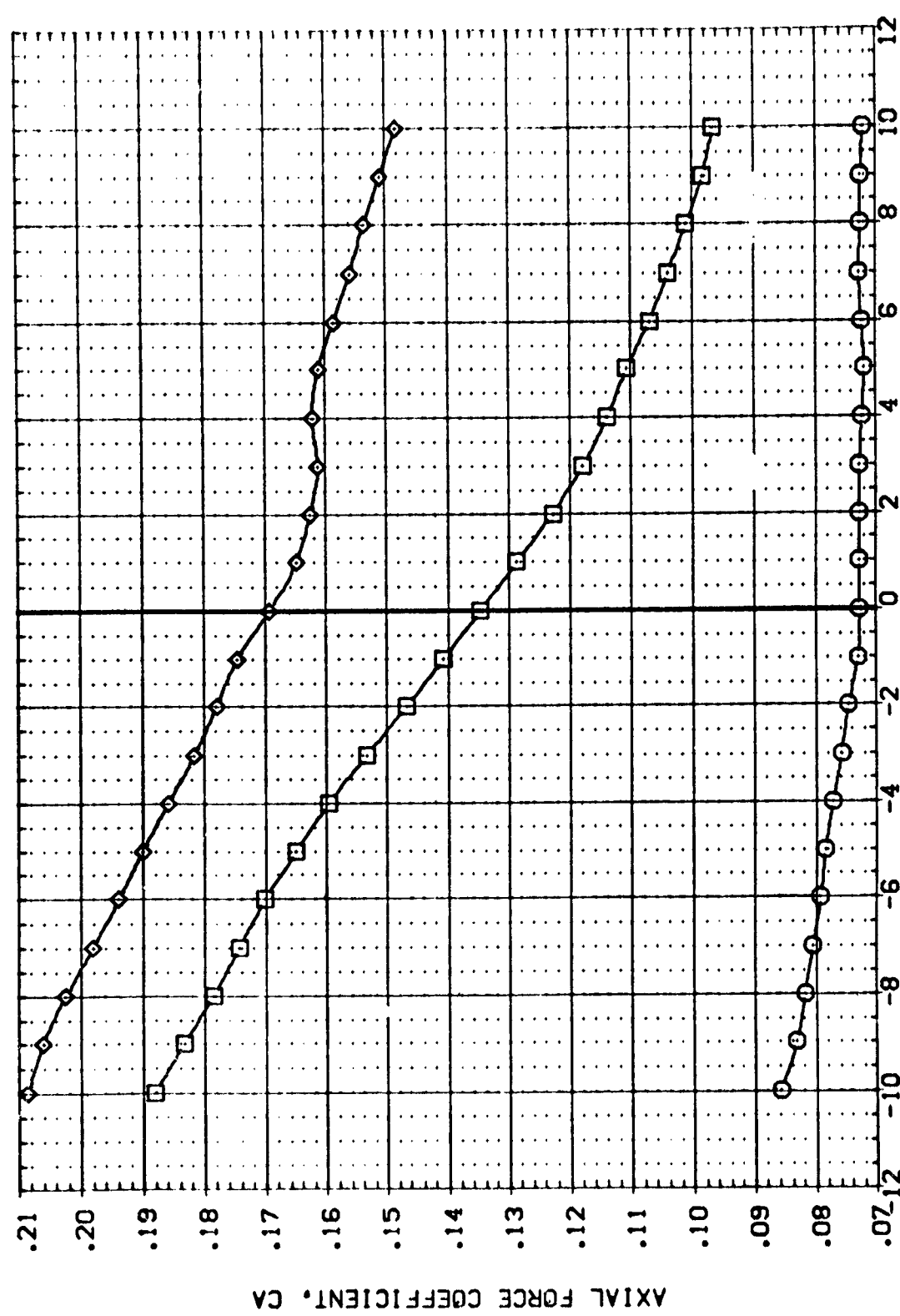


EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76,PT-JEI=1500)

$$(A)MACH = 4.50$$

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS		RN/L	PT-JET	BETA	REFERENCE INFORMATION	
(RTLO13)	□	AEDC VA-422(A-57); CRB/ET V/RIGHT SRB	.100	1.760	1500.000	.000	SREF	2690.0000	50. FT.
(RTLO21)	◇	AEDC VA-422(A-57); CRB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	LREF	1290.3000	
(RTLO29)	◇	AEDC VA-422(A-57); CRB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	BREF	1290.3000	
							XMRP	1052.0000	
							YMRP	00.0000	
							ZMRP	447.0000	
							SCALE	.0100	



AXIAL FORCE COEFFICIENT, CA

ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=1500)

(A)MACH = 4.50

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	REFERENCE INFORMATION
EF	2690.0000
EF	:280.0000
EF	:283.0000
RP	:052.0000
RP	:000.0000
RP	447.0000
ALE	:000.0000

DATA SET SYMBOL: (RTLO14), (RTLO22), (RTLO30)

CONFIGURATION DESCRIPTION: AECC VA-422(1A-57), CRB/ET V/R/IGHT SRB; AECC VA-422(1A-57), CRB/ET V/R/IGHT SRB; AECC VA-422(1A-57), CRB/ET V/R/IGHT SRB

SRBPOS: .100, .200, .300

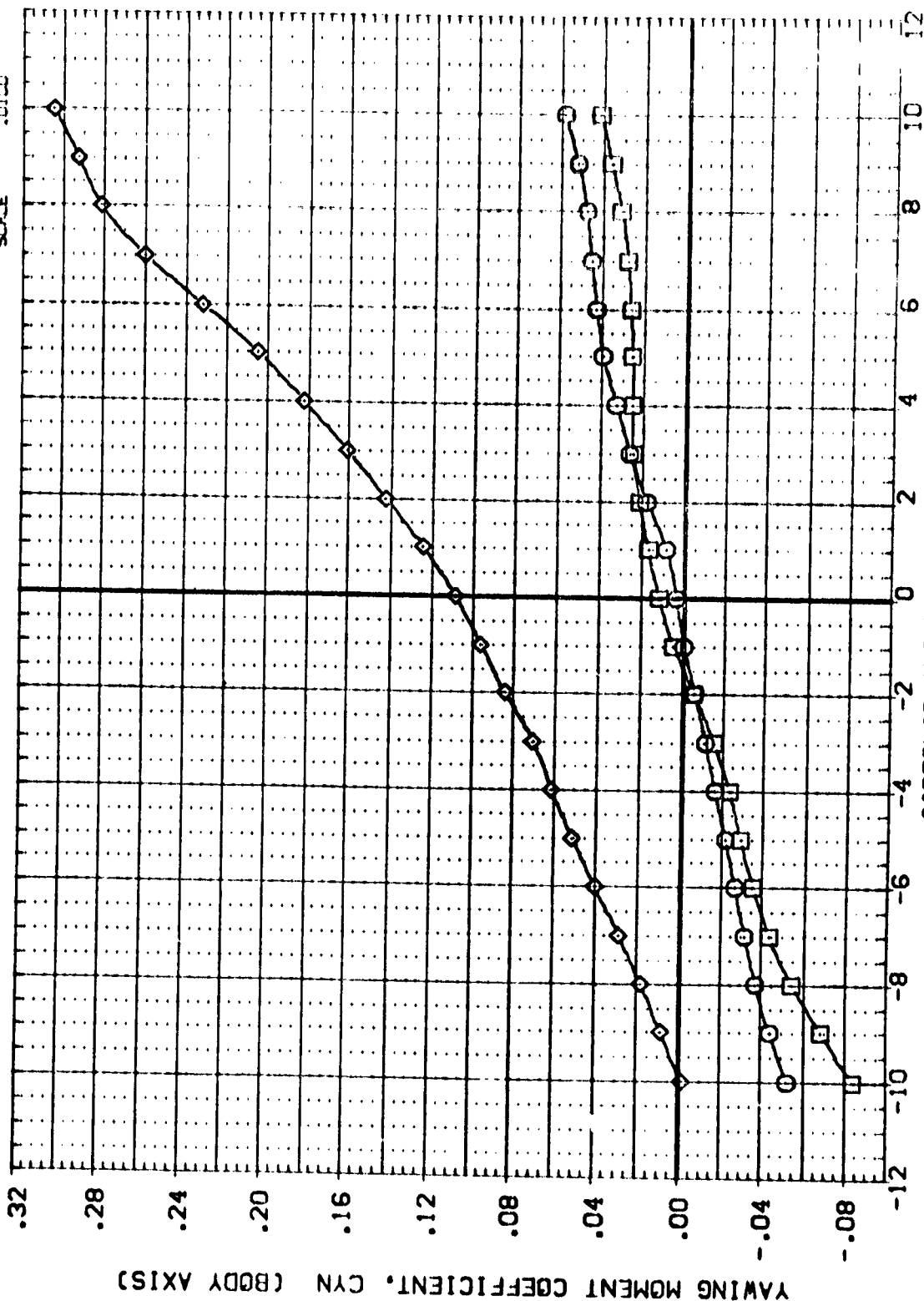
RN/L: 1.760, 1.500, 1.000

PT-JET: .000, .000, .000

ALPHA: .000, .000, .000

REFERENCE INFORMATION: SREF: 2620.0000, LREF: 1290.3000, BREF: 1290.3000, XREF: 1052.0000, YREF: 447.0000, ZREF: 447.0000, SCALE: .0100

SQ.FT.: 2620.0000, 1290.3000, 1290.3000, 1052.0000, 447.0000, 447.0000, .0100



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=1500)

(A) MACH = 4.50

DATA SET SYMBOL: (RTLO14) (RTLO22) (RTLO30)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB

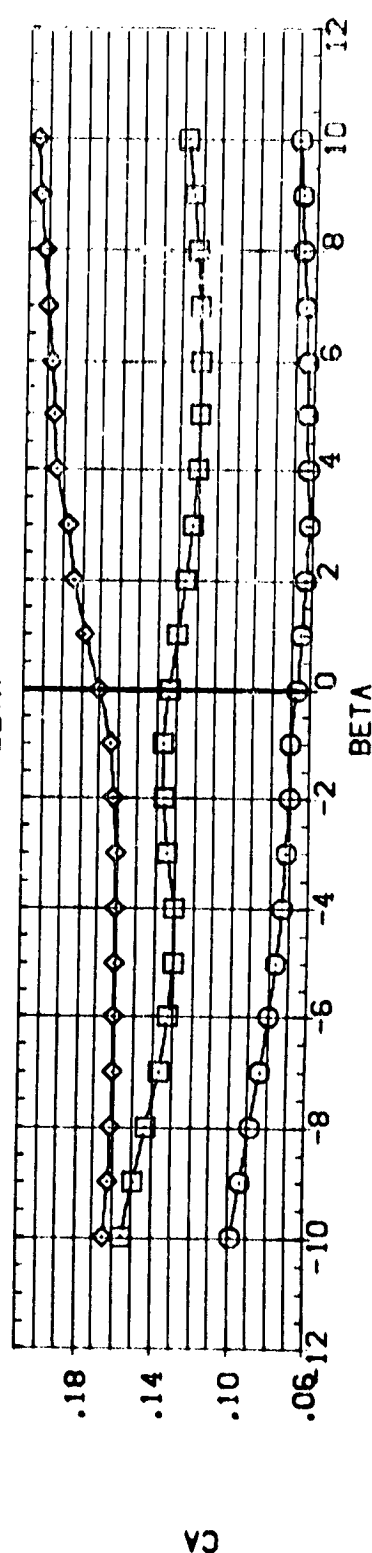
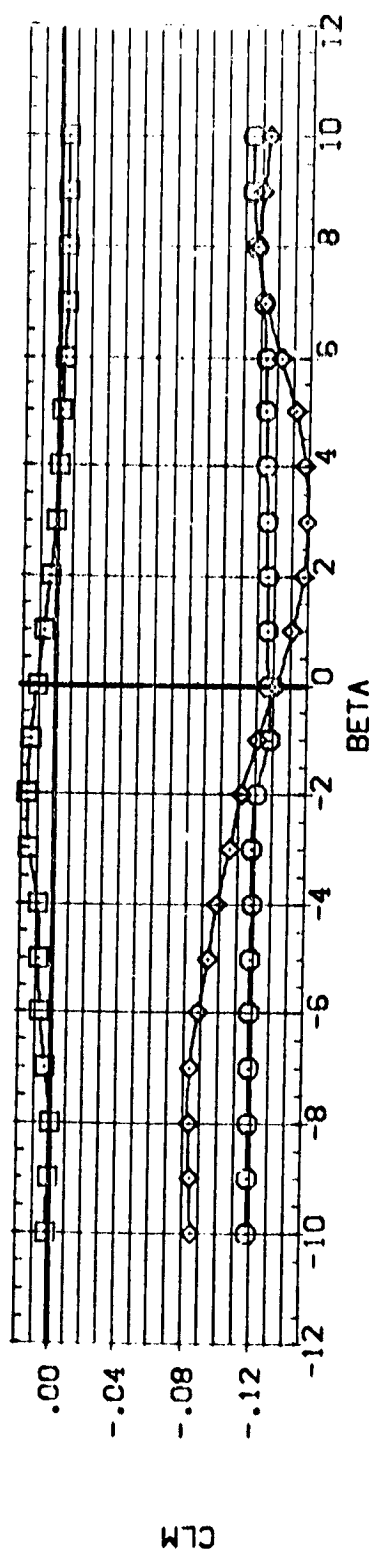
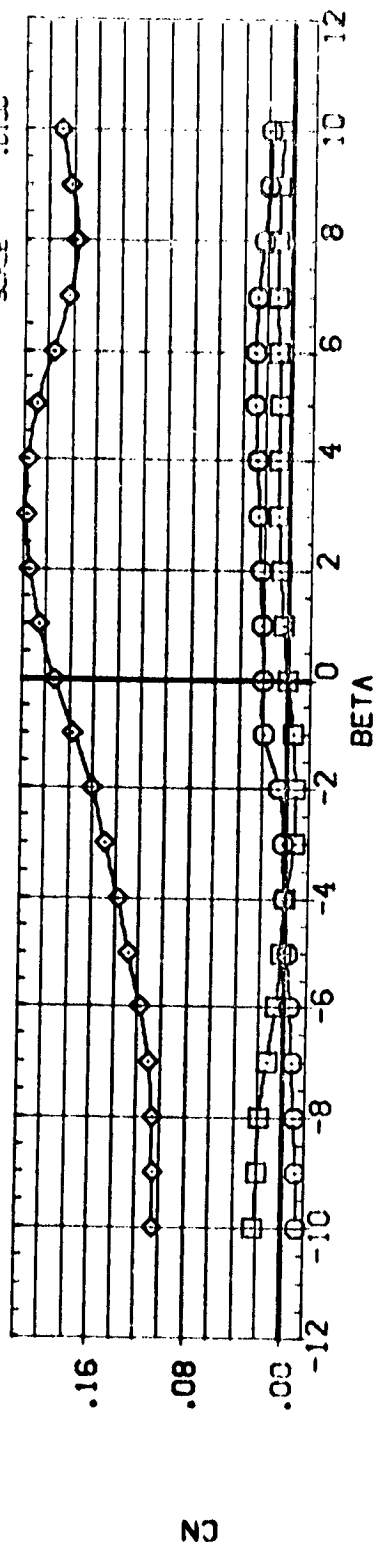
SRB POS: .100 .200 .300

RN/L: 1.760 1500.000 1.760 1500.000 1.760 1500.000

PT-JET: .000 .000 .000

ALPHA: .000 .000 .000

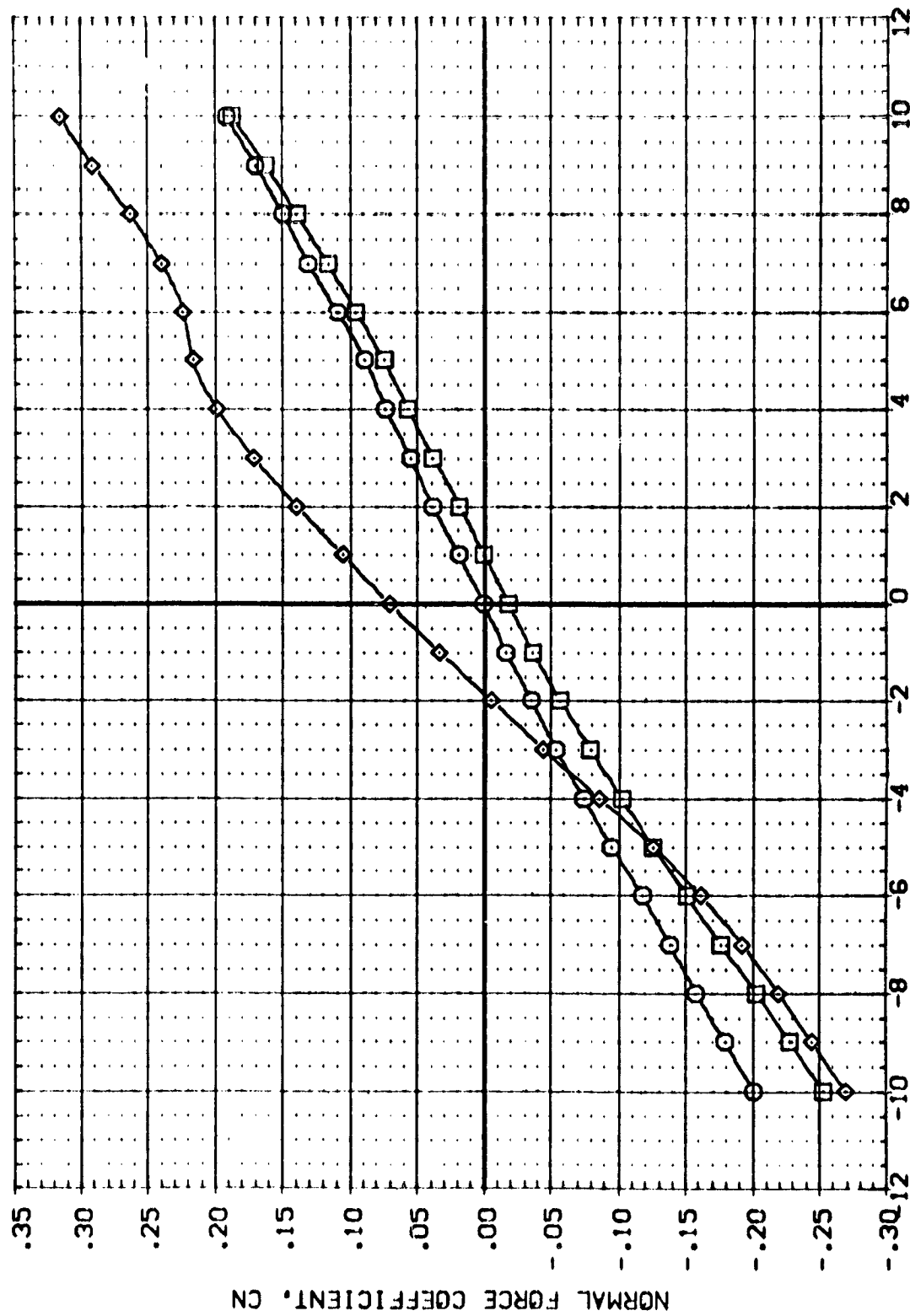
REFERENCE INFORMATION: SREF 2630.0000 SQ.FT. LREF 1260.0000 XREF 1260.0000 YREF 152.0000 ZREF 447.0000 SCALE 447.0000



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		BETA		REFERENCE INFORMATION	
(R)LO(1)	Q	AEDC VA-422(A-57)	CRB/ET V/RIGHT SRB	.100	1.760	750.000	.000	SREF	2693.0000	SO. F.			
(R)LO(9)	Q	AEDC VA-422(A-57)	CRB/ET V/RIGHT SRB	.200	1.760	750.000	.000	LREF	2693.0000	SO. F.			
(R)LO(27)	Q	AEDC VA-422(A-57)	CRB/ET V/RIGHT SRB	.300	1.760	750.000	.000	BREF	2693.0000	SO. F.			
								XREF	2693.0000	SO. F.			
								YREF	2693.0000	SO. F.			
								ZREF	2693.0000	SO. F.			
								SCALE	4.0	SO. F.			



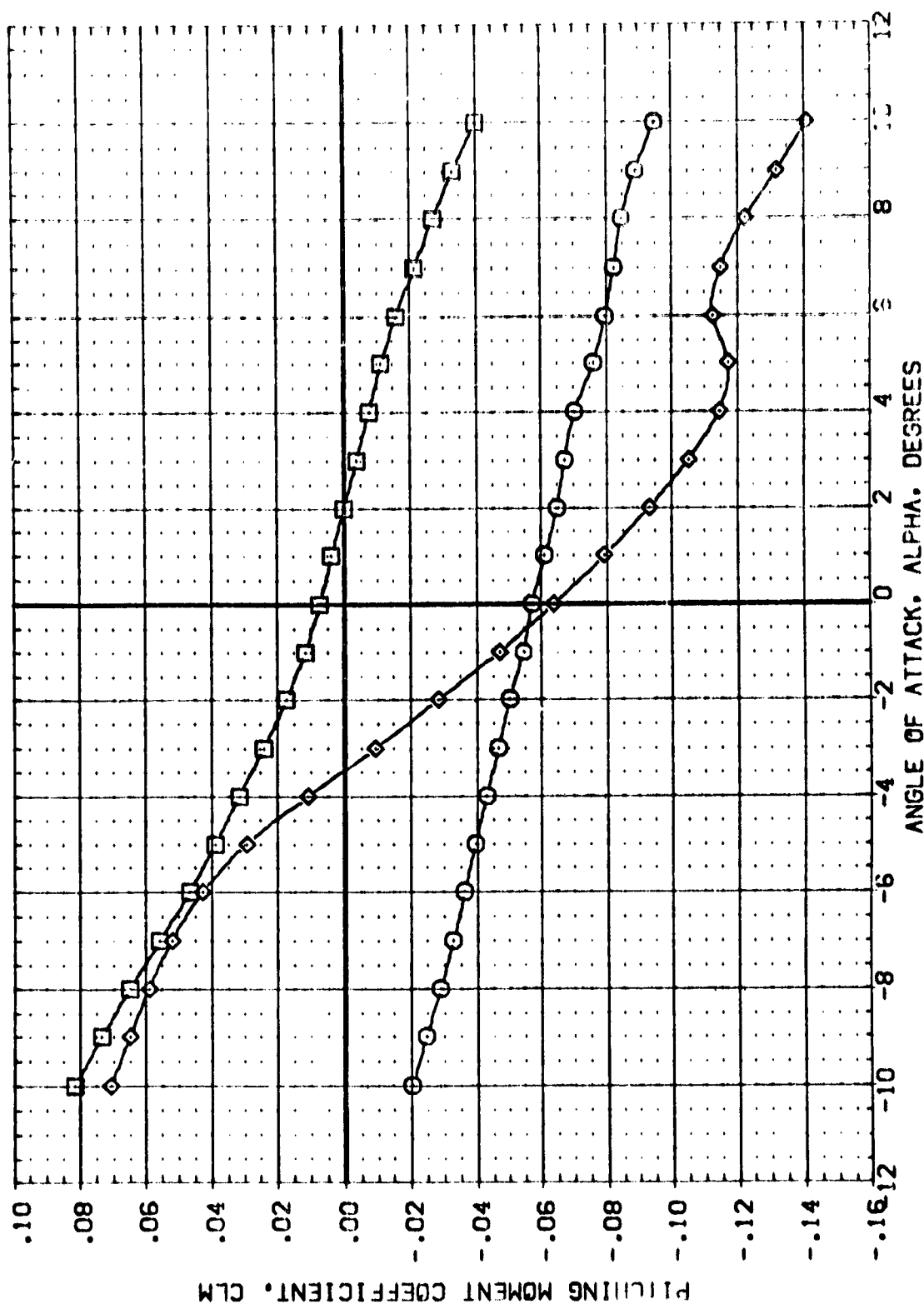
EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

(RTLO11)	AEDC VA-422(A-57):	ORB/ET	V/RIGT	S9B
(RTLO19)	AEDC VA-422(A-57):	ORB/ET	V/RIGT	S9B
(RTLO27)	AEDC VA-422(A-57):	ORB/ET	V/RIGT	S9B

SRRPOS	RAVL	PT-JET	BETA
.100	1.750	750.000	.000
.200	1.750	750.000	.000
.300	1.750	750.000	.000

REFERENCE IN REFERENCE



EFFECT OF ONLY ONE SRB SEPARATION ON O/E/T CHARACTER. (RV/L=1.76, PT-JET=7500)

(A)MACH = 4.50

10
11
12
13
14

DATA SET SYMBOL: (RTL011) (RTL019) (RTL027)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

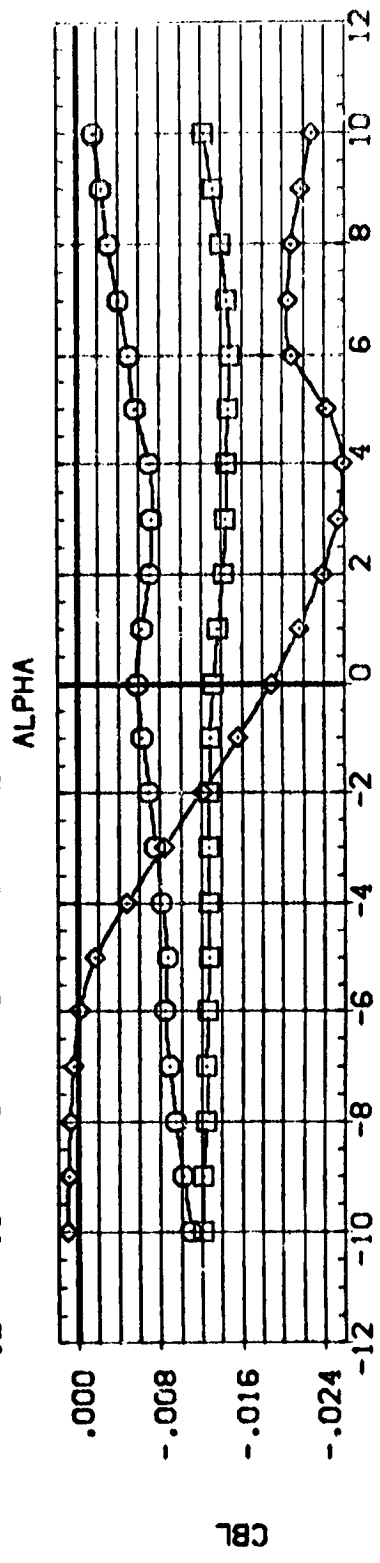
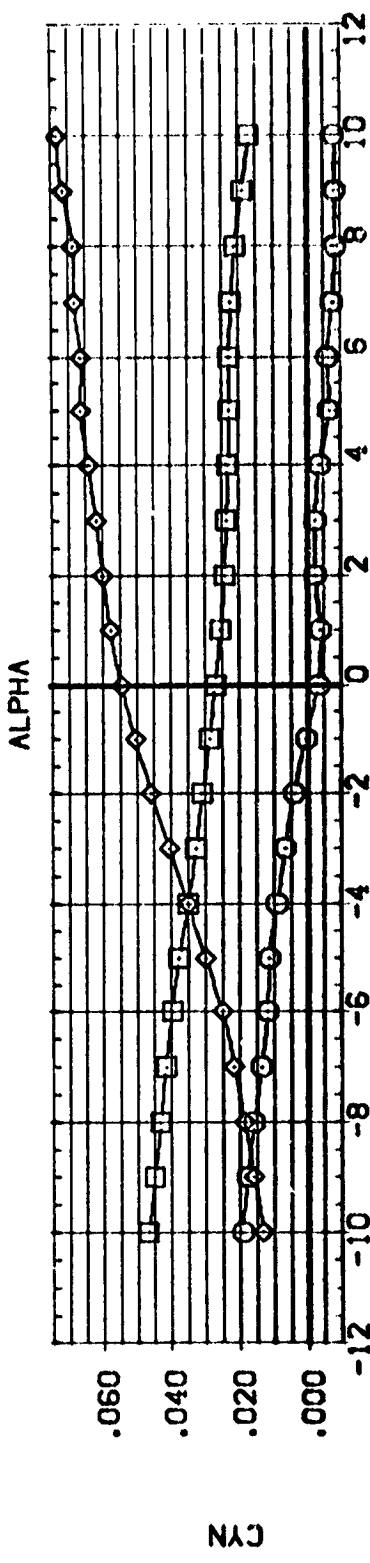
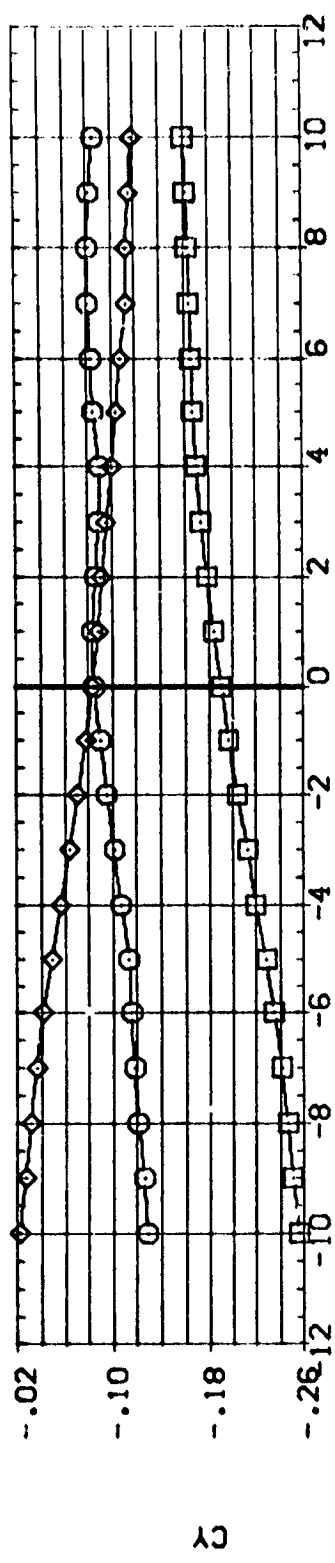
SRBPOS: .100 .200 .300

RN/L: 1.760 1.760 1.760

PT-JET: 750.000 750.000 750.000

BETA: .000 .000 .000

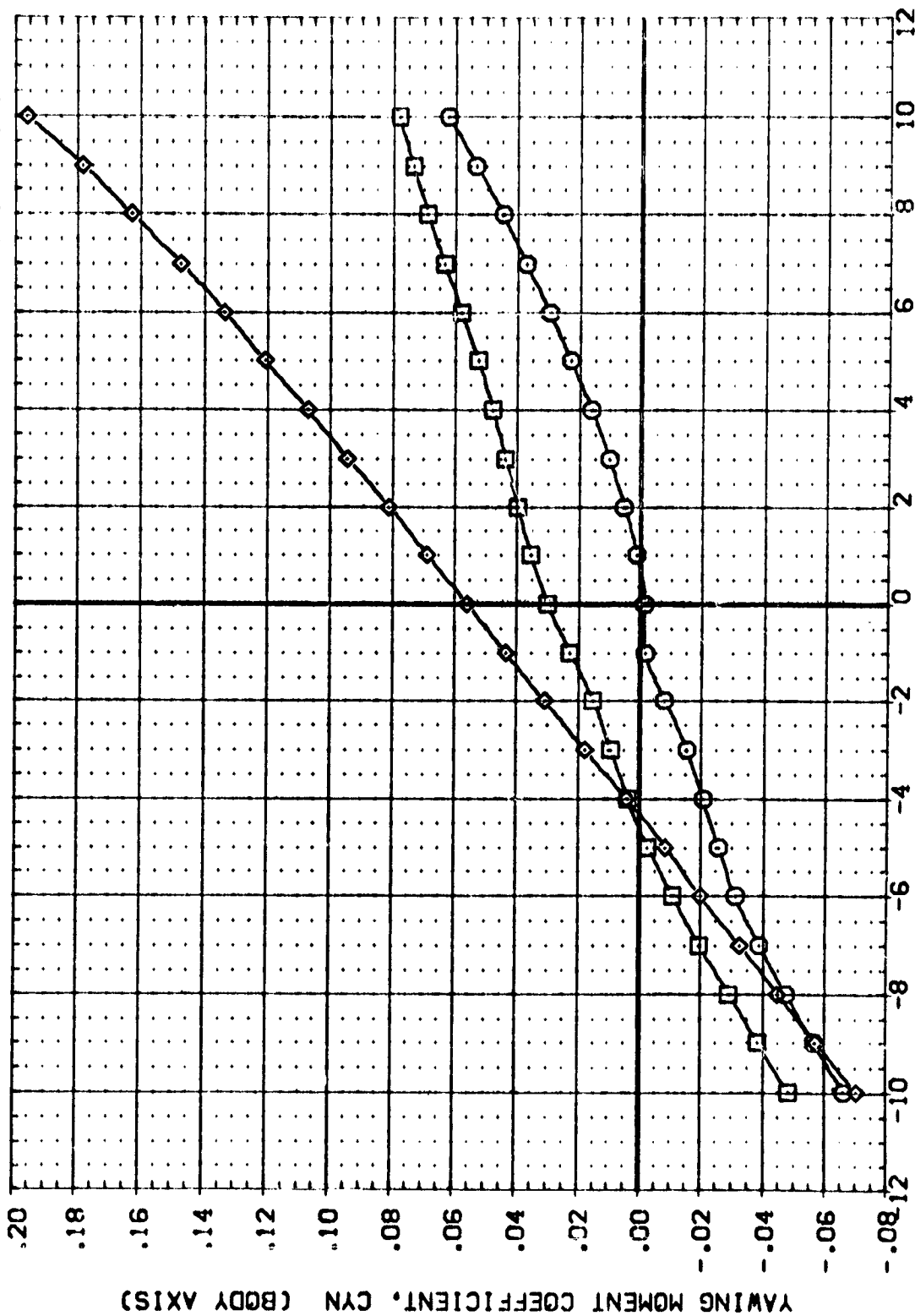
REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 1290.3000 IN. BREF 1290.3000 IN. XT 1052.0000 IN. YMRP .0000 ZMRP .0000 SCALE 447.0000



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

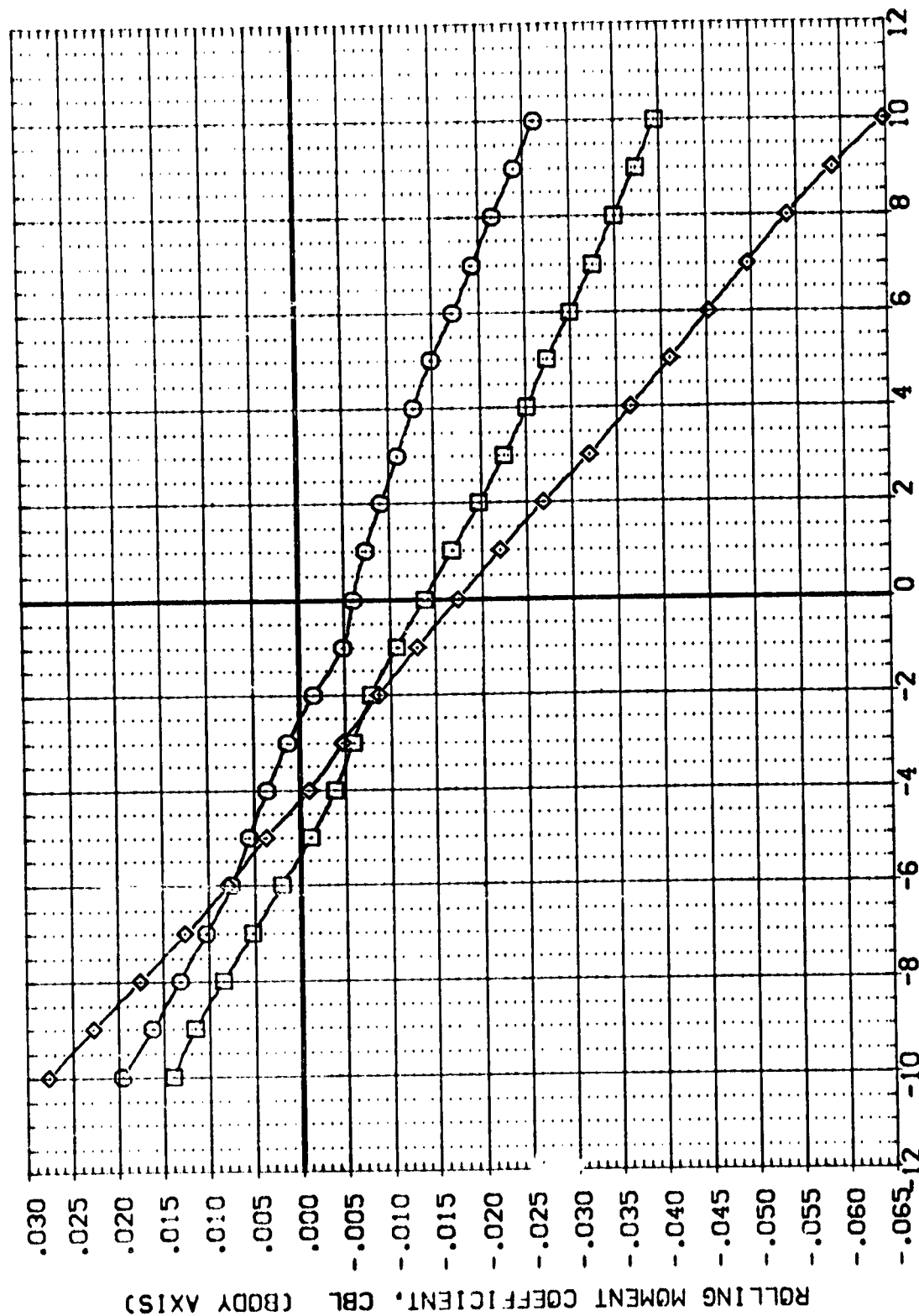
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRSPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION			
(RTLO12)	□	AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB	.100	1.760	750.000	.000	SREF	2690.0000	50.FT.	
(RTLO20)	◇	AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB	.200	1.760	750.000	.000	LREF	1290.3000	IN.	
(RTLO28)	◇	AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB	.300	1.760	750.000	.000	BREF	1290.3000	IN.	
							X-REF	1052.0000	IN.	
							Y-REF	447.0000	IN.	
							Z-REF	447.0000	IN.	
							SCALE	.0100	IN.	



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACT. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTL012)	AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB	.100	1.760	750.000	.000	SREF 2699.0000 SO.57.
(RTL020)	AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB	.200	1.760	750.000	.000	LREF 1290.3000
(RTL028)	AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB	.300	1.760	750.000	.000	BREF 1290.3000
						XMRP 1252.0000
						VMRP 1252.0000
						ZMRP 447.0000
						SCALE .0100



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A) MACH = 4.50

DATA SET SYMBOL: (RTLQ12) (RTLQ20) (RTLQ28)

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

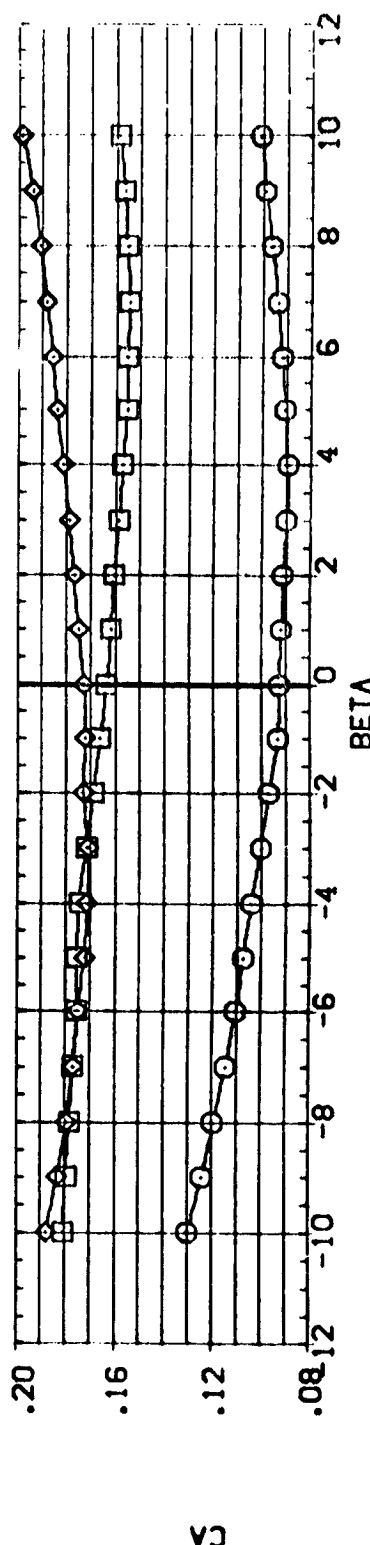
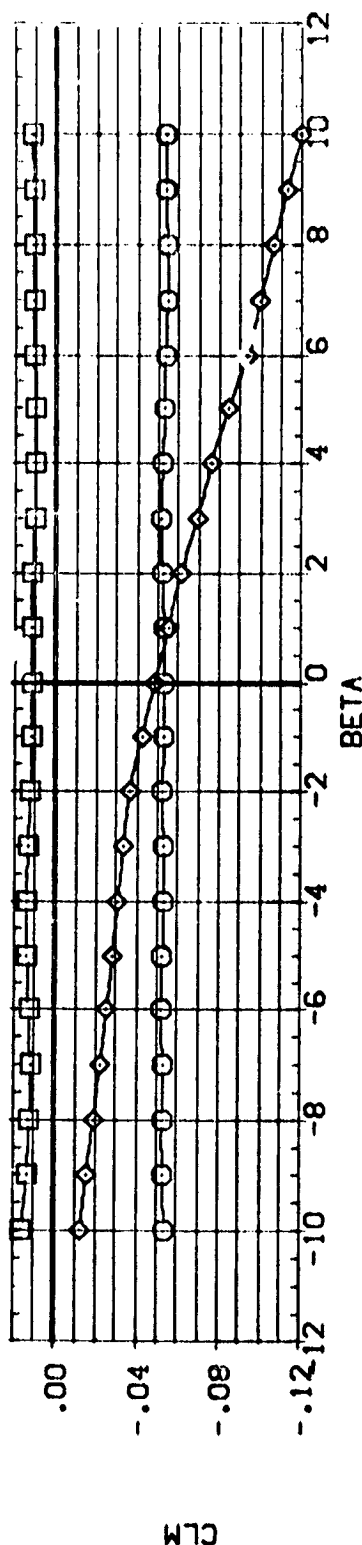
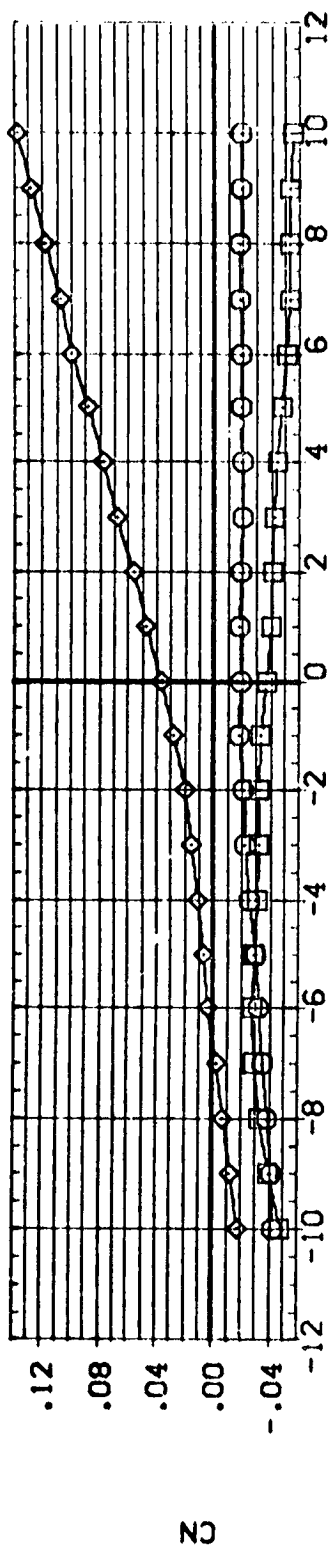
SRB POS: .100 .200 .300

RN/L: 1.760 1.760 1.760

PT-JET: 750.000 750.000 750.000

ALPHA: .000 .000 .000

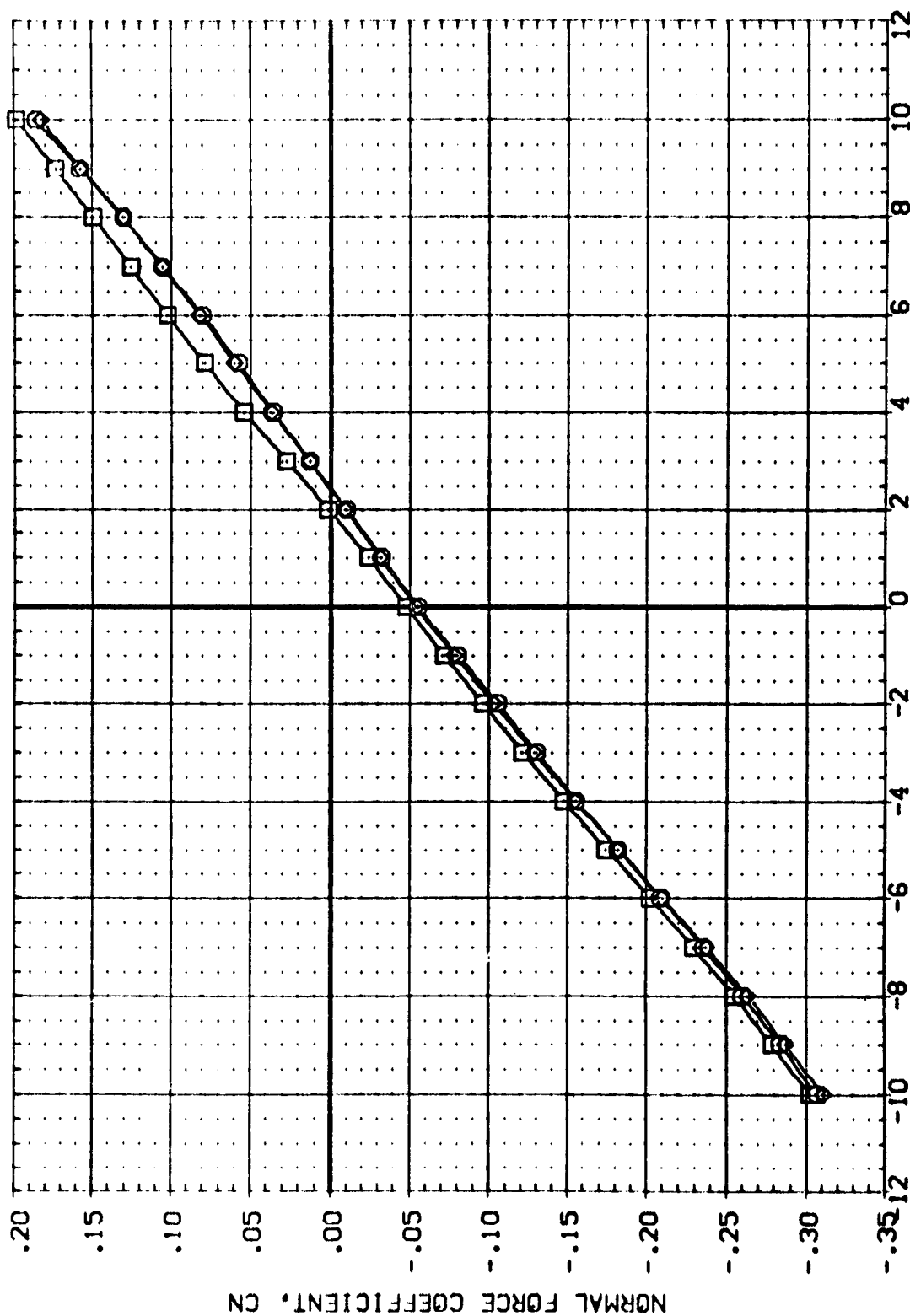
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 BREF: 1290.0000 10.00
 XPRD: .0000
 YPRD: .0000
 ZPRD: .0000
 SCALE: 447.0000



EFFECT OF ONLY ONE SRB SEPARATION ON O/ET CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION	
(RTLO09)	□	AEDC VA-422(A-57): O/SB/ET V/RIGHT SRB	.100	1.760	.000	.000	SREF	2690.0000
(RTLO17)	○	AEDC VA-422(A-57): O/SB/ET V/RIGHT SRB	.200	1.760	.000	.000	LREF	2690.0000
(R-025)	◇	AEDC VA-422(A-57): O/SB/ET V/RIGHT SRB	.300	1.760	.000	.000	BREF	2690.0000
							XT	2690.0000
							YT	2690.0000
							Z	2690.0000
							SCALE	447.0000



EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON O/ET CHARACTER. (RN/L=1.76)

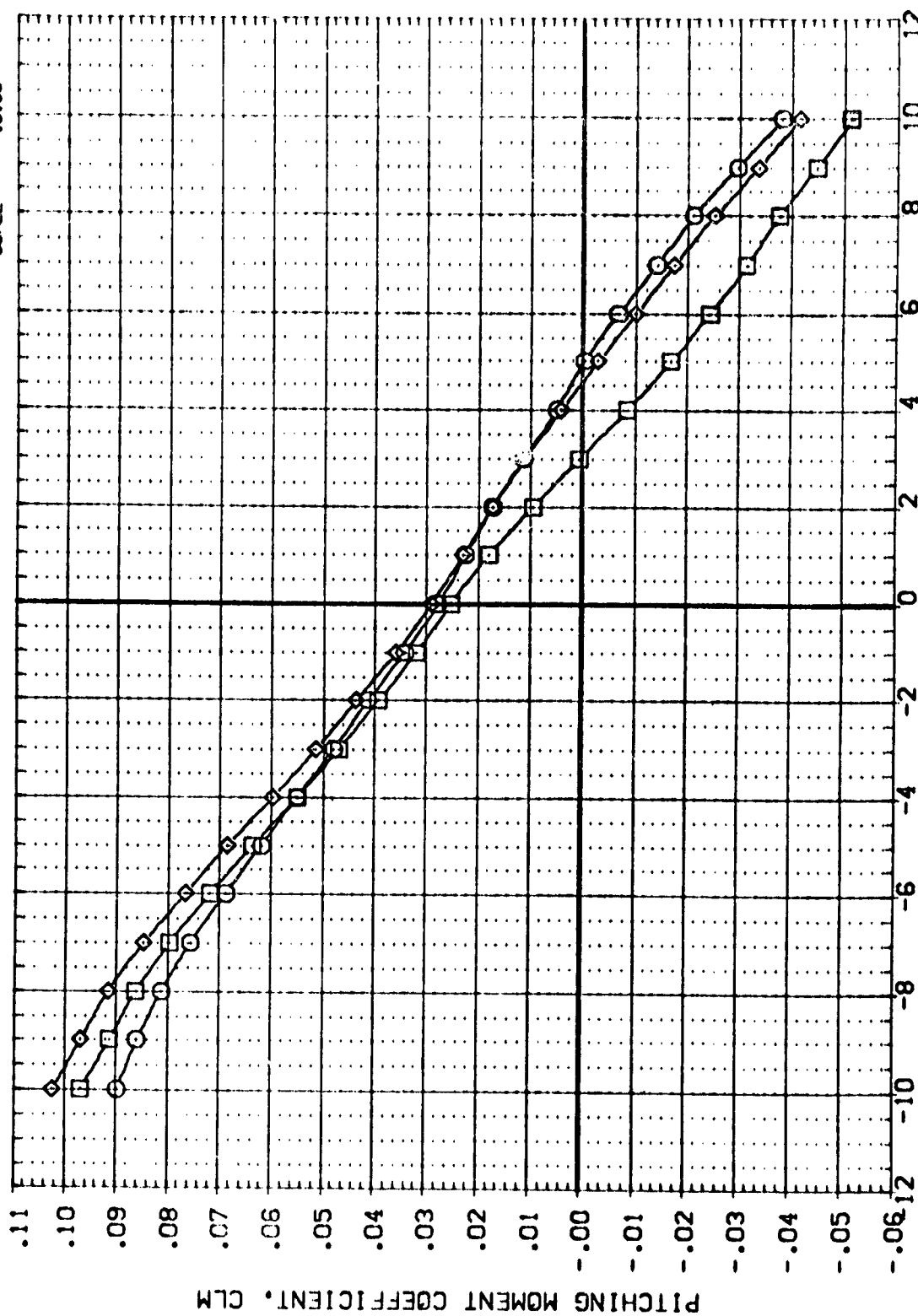
(A)MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO09) AEDC VA-422(1A-57). CRB/ET W/R/IGHT SRB
 (RTLO17) AEDC VA-422(1A-57). CRB/ET W/R/IGHT SRB
 (RTLO25) AEDC VA-422(1A-57). CRB/ET W/R/IGHT SRB

SRB POS R/V/L PT-JET BETA
 .100 1.760 .000
 .200 1.760 .000
 .300 1.760 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 IN.
 BREF 1290.0000 IN.
 XREF 1290.0000 IN.
 YREF 1290.0000 IN.
 ZREF 1290.0000 IN.
 SCALE 447.0000



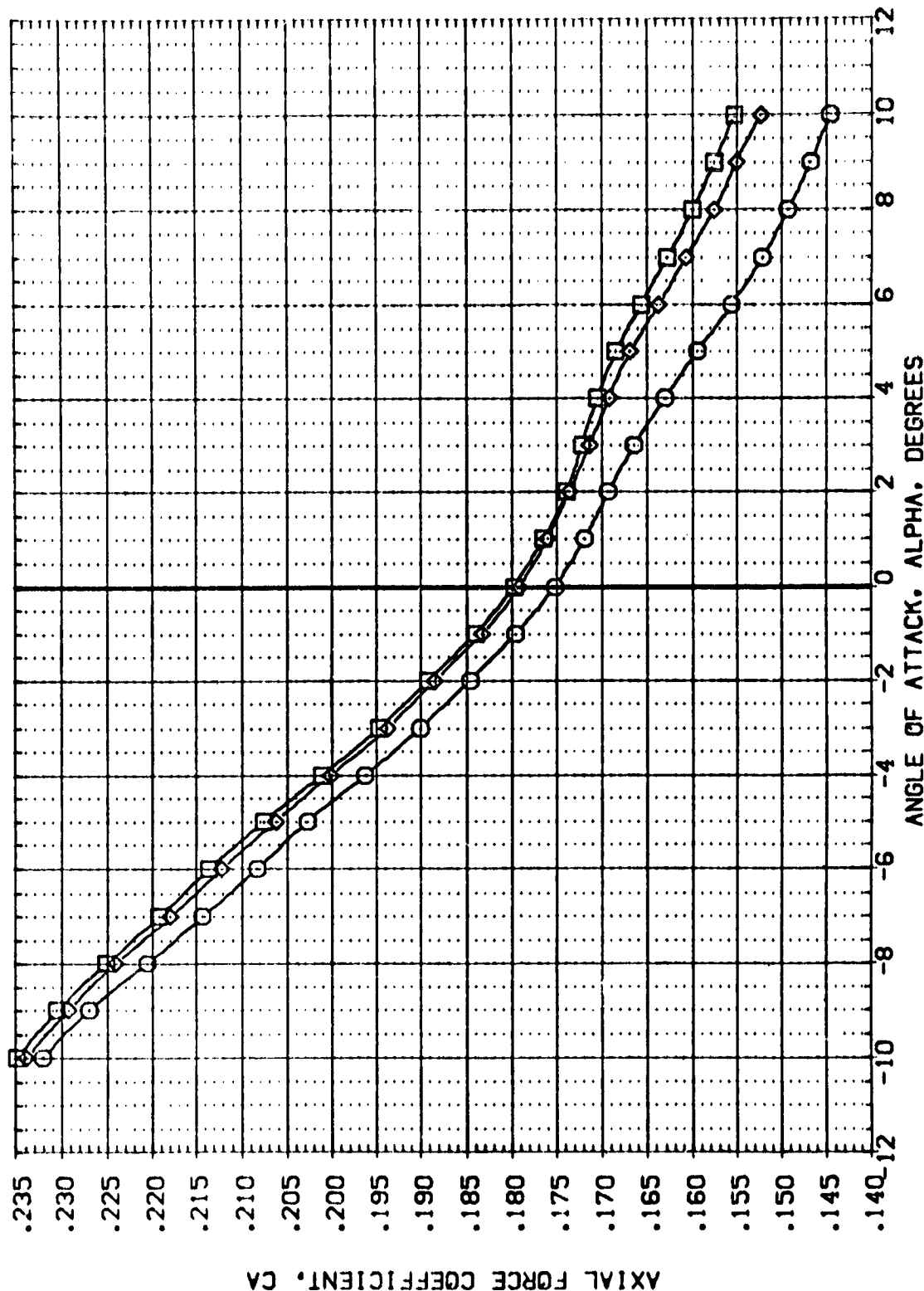
ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON O/ET CHARACT. (R/V/L=1.76)

(A)MACH = 4.50

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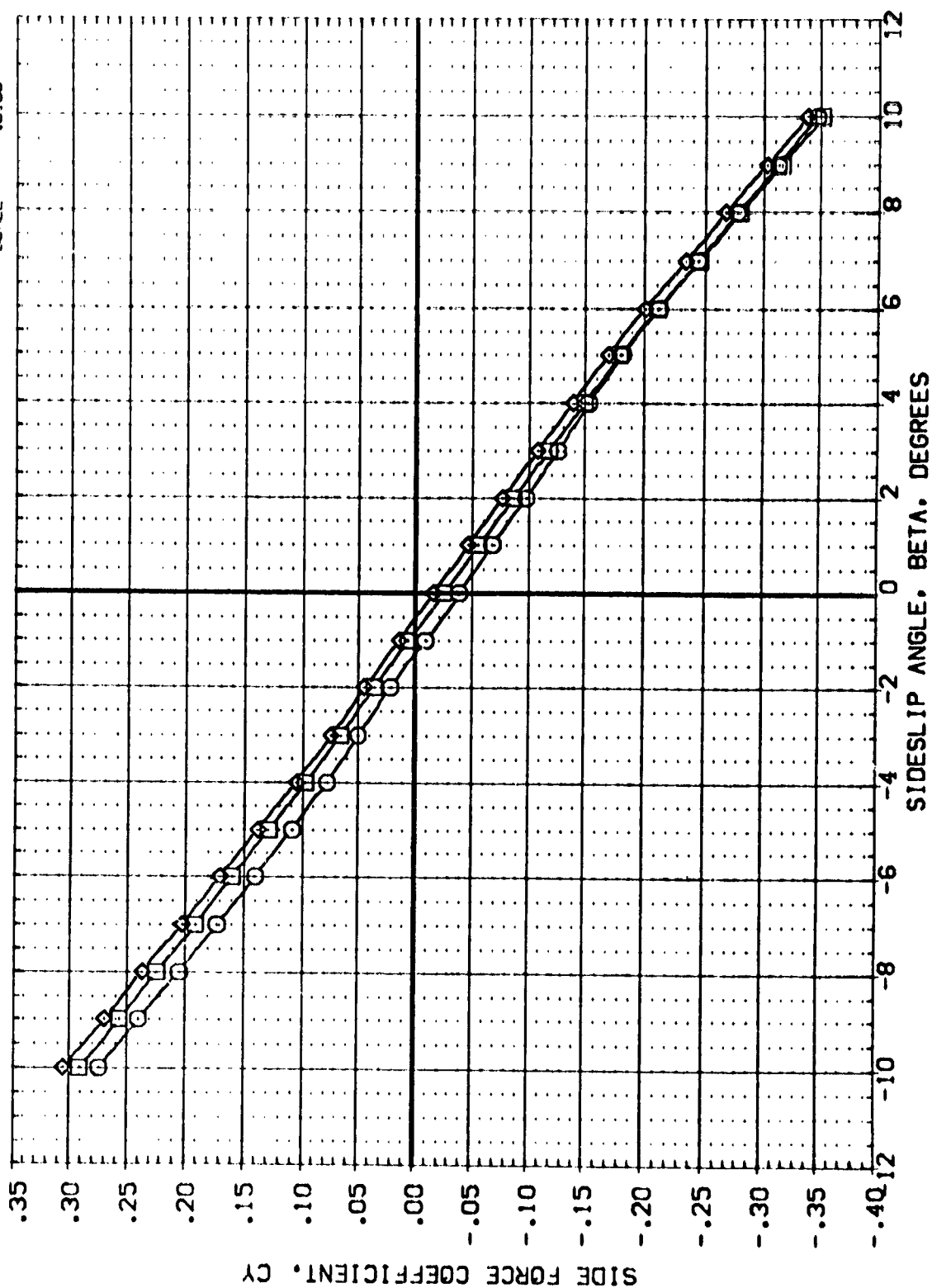
DATA SET SYMBOL	CONF IGURATION DESCRIPTION	SRSPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(RTL009)	AEDC VA-422(A-57): SRB/ET V/RIGHT SRB	.100	1.750	.000	.000	SREF 2850.0000 52. FT.
(RTL017)	AEDC VA-422(A-57): SRB/ET V/RIGHT SRB	.200	1.760	.000	.000	LREF 1250.3000 1N.
(RTL025)	AEDC VA-422(A-57): SRB/ET V/RIGHT SRB	.300	1.760	.000	.000	BREF 1250.3000 1N.
						WREF 1052.0000 1N.
						WREF 1052.0000 1N.
						WREF 447.0000 1N.
						SCALE 0.00



EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON O/ET CHARACT. (RN/L=1.76)

(RT_0:0)	AEDC VA-422 (A-57),	CR8/ET V/RIGHT	S98
(R_0:8)	AEDC VA-422 (A-57),	CR8/ET V/RIGHT	S98
(RT_0:6)	AEDC VA-422 (A-57),	CR8/ET V/RIGHT	S98

SRRPOS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION	ST.	X-Y-Z
.100	1.760	.000	.000	SRET	00000000000000000000	
.200	1.760	.000	.000	BRET	00000000000000000000	
.300	1.760	.000	.000	SBRT	00000000000000000000	
				TRPO	00000000000000000000	
				TRPZ	00000000000000000000	
				TRPY	00000000000000000000	

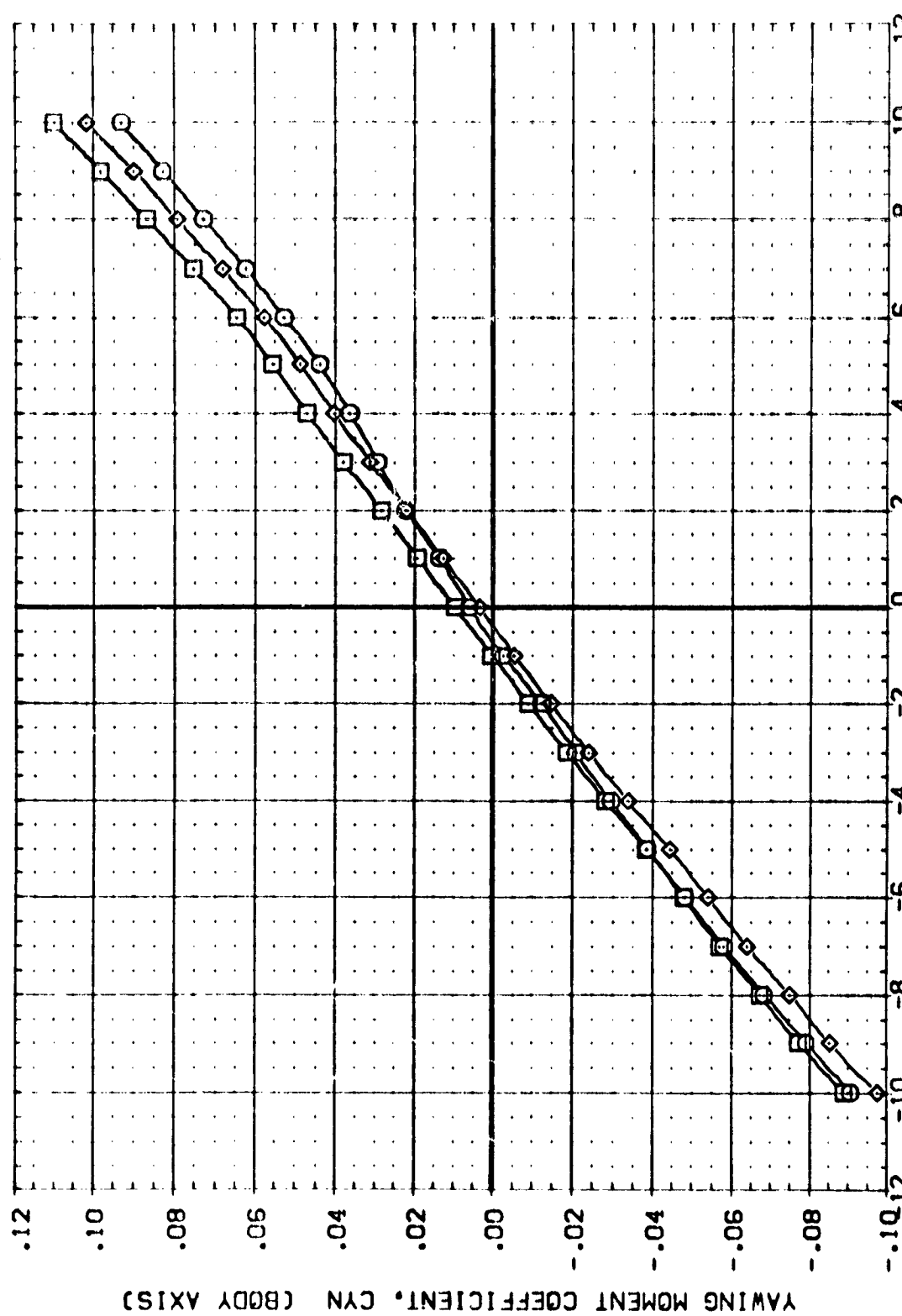


EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON Q/ET CHARACT. (RN/L=1.76)

$$[A]_{MACH} = 4.50$$

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(RTLO10)	(RTLO18)	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.100	1.750	.000	.000	SREF	2550.0000	SD. FT.			
(RTLO18)	(RTLO26)	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.200	1.750	.000	.000	LREF	250.0000	SD. FT.			
		AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.300	1.750	.000	.000	XREF	250.0000	SD. FT.			
								YREF	250.0000	SD. FT.			
								ZREF	250.0000	SD. FT.			
								SCALE	447.0000	SD. FT.			

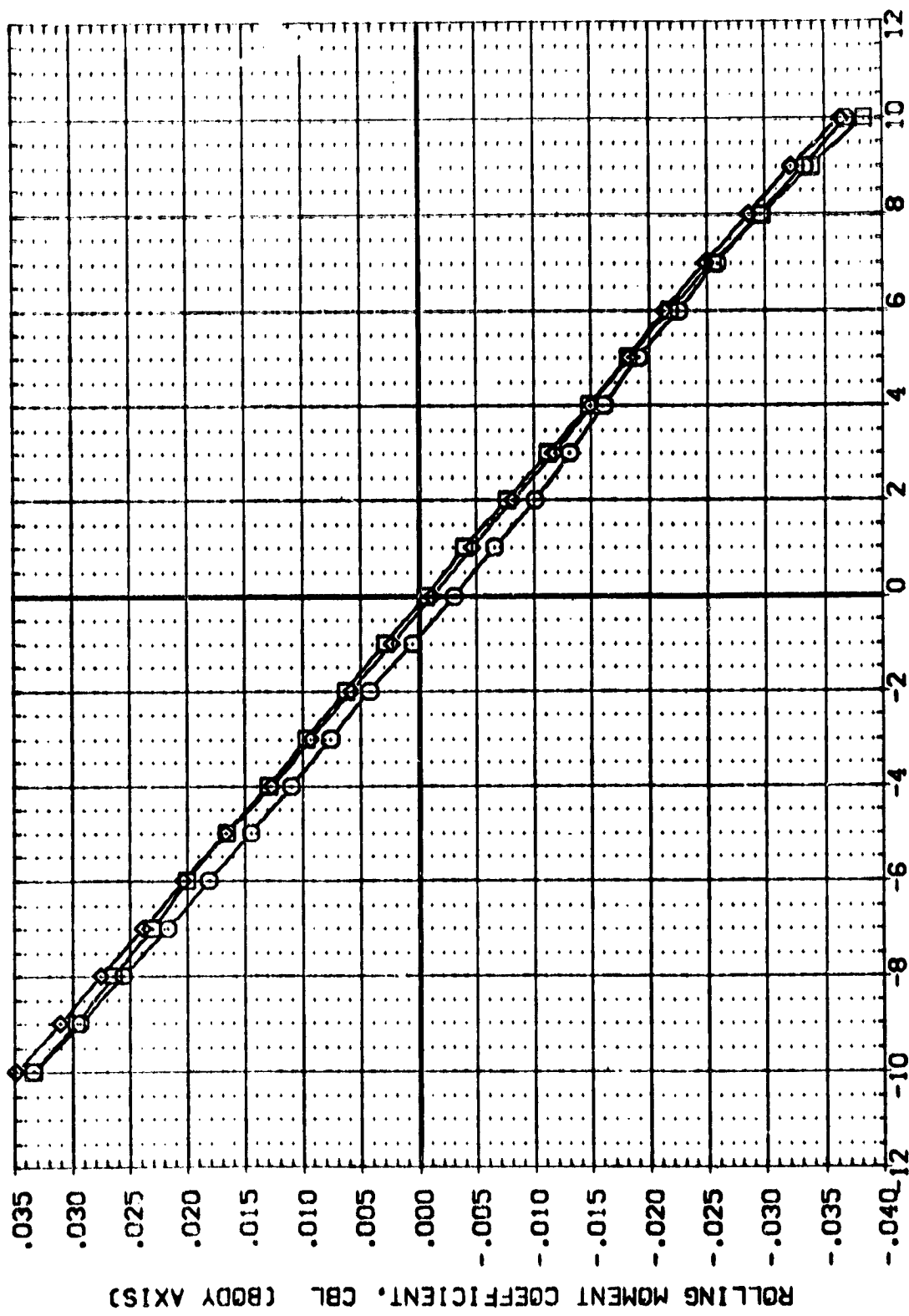


EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON C/ET CHARACT. (RV/L=1.76)

(A)MACH = 4.50

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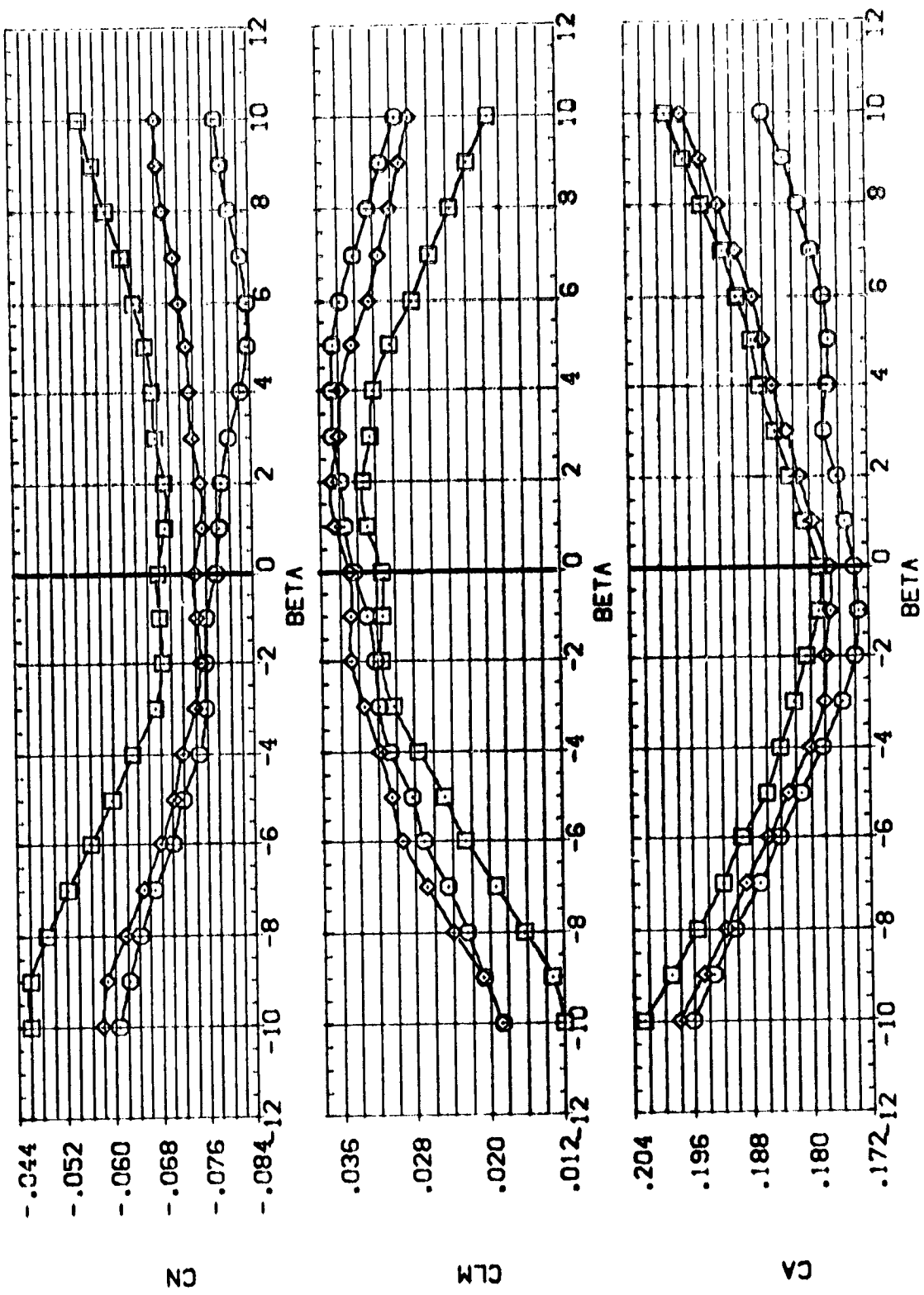
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS		RVL	PT-JET	ALPHA	REFERENCE INFORMATION	
(R)010		AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB	.100	1.760	.000			SREF	2690.0000
(R)018		AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB	.200	1.760	.000			LREF	1290.0000
(R)026		AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB	.300	1.760	.000			SREF	1290.0000
								XREF	1290.0000
								YREF	1290.0000
								ZREF	447.0000
								SCALE	.0100



EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLUMES ON θ/ET CHARACTER. (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(RTLO10)	□	AEDC VA-422(A-57):	ORB/ET	W/RIGHT SRB	.100	1.760	.000		SREF	2690.0000	50. FT.		
(RTLO18)	◇	AEDC VA-422(A-57):	ORB/ET	W/RIGHT SRB	.200	1.760	.000		LREF	1290.3000	N.		
(RTLO26)	○	AEDC VA-422(A-57):	ORB/ET	W/RIGHT SRB	.300	1.760	.000		XREF	1290.3000	N.		
									YREF	1052.0000	N.		
									ZREF	447.0000	N.		
									SCALE	.0100	Z		



EFFECT OF ONLY ONE SRB SEPARATION WITH NO PLYMES ON O/ET CHARACT. (RV/L=1.76)

(A)MACH = 4.50

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REFERENCE INFORMATION

	SREF	LREF	BREF	XPRP	YPRP	ZPRP	SCALE
2690	0000	280	3000	1290	3000	052	0000
2700	0000	280	3000	1290	3000	052	0000
2710	0000	280	3000	1290	3000	052	0000
2720	0000	280	3000	1290	3000	052	0000
2730	0000	280	3000	1290	3000	052	0000
2740	0000	280	3000	1290	3000	052	0000
2750	0000	280	3000	1290	3000	052	0000
2760	0000	280	3000	1290	3000	052	0000
2770	0000	280	3000	1290	3000	052	0000
2780	0000	280	3000	1290	3000	052	0000
2790	0000	280	3000	1290	3000	052	0000
2800	0000	280	3000	1290	3000	052	0000
2810	0000	280	3000	1290	3000	052	0000
2820	0000	280	3000	1290	3000	052	0000
2830	0000	280	3000	1290	3000	052	0000
2840	0000	280	3000	1290	3000	052	0000
2850	0000	280	3000	1290	3000	052	0000
2860	0000	280	3000	1290	3000	052	0000
2870	0000	280	3000	1290	3000	052	0000
2880	0000	280	3000	1290	3000	052	0000
2890	0000	280	3000	1290	3000	052	0000
2900	0000	280	3000	1290	3000	052	0000
2910	0000	280	3000	1290	3000	052	0000
2920	0000	280	3000	1290	3000	052	0000
2930	0000	280	3000	1290	3000	052	0000
2940	0000	280	3000	1290	3000	052	0000
2950	0000	280	3000	1290	3000	052	0000
2960	0000	280	3000	1290	3000	052	0000
2970	0000	280	3000	1290	3000	052	0000
2980	0000	280	3000	1290	3000	052	0000
2990	0000	280	3000	1290	3000	052	0000
3000	0000	280	3000	1290	3000	052	0000
3010	0000	280	3000	1290	3000	052	0000
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3040	0000	280	3000	1290	3000	052	0000
3050	0000	280	3000	1290	3000	052	0000
3060	0000	280	3000	1290	3000	052	0000
3070	0000	280	3000	1290	3000	052	0000
3080	0000	280	3000	1290	3000	052	0000
3090	0000	280	3000	1290	3000	052	0000
3100	0000	280	3000	1290	3000	052	0000
3110	0000	280	3000	1290	3000	052	0000
3120	0000	280	3000	1290	3000	052	0000
3130	0000	280	3000	1290	3000	052	0000
3140	0000	280	3000	1290	3000	052	0000
3150	0000	280	3000	1290	3000	052	0000
3160	0000	280	3000	1290	3000	052	0000
3170	0000	280	3000	1290	3000	052	0000
3180	0000	280	3000	1290	3000	052	0000
3190	0000	280	3000	1290	3000	052	0000
3200	0000	280	3000	1290	3000	052	0000
3210	0000	280	3000	1290	3000	052	0000

SREF	2690.0000
LREF	2290.3000
BREF	2290.3000
XPRP	0052.0000
YPRP	0000.0000
ZPRP	447.0000
SCALE	0.0000



EFFECT OF SRB ON O/VET CHARACT. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO01)
 (RTLO13)
 (RTLO38)

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ISOLATED ORB/JET
 AEDC VA-422(1A-57): ORB/JET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/JET V/BOTH SRB

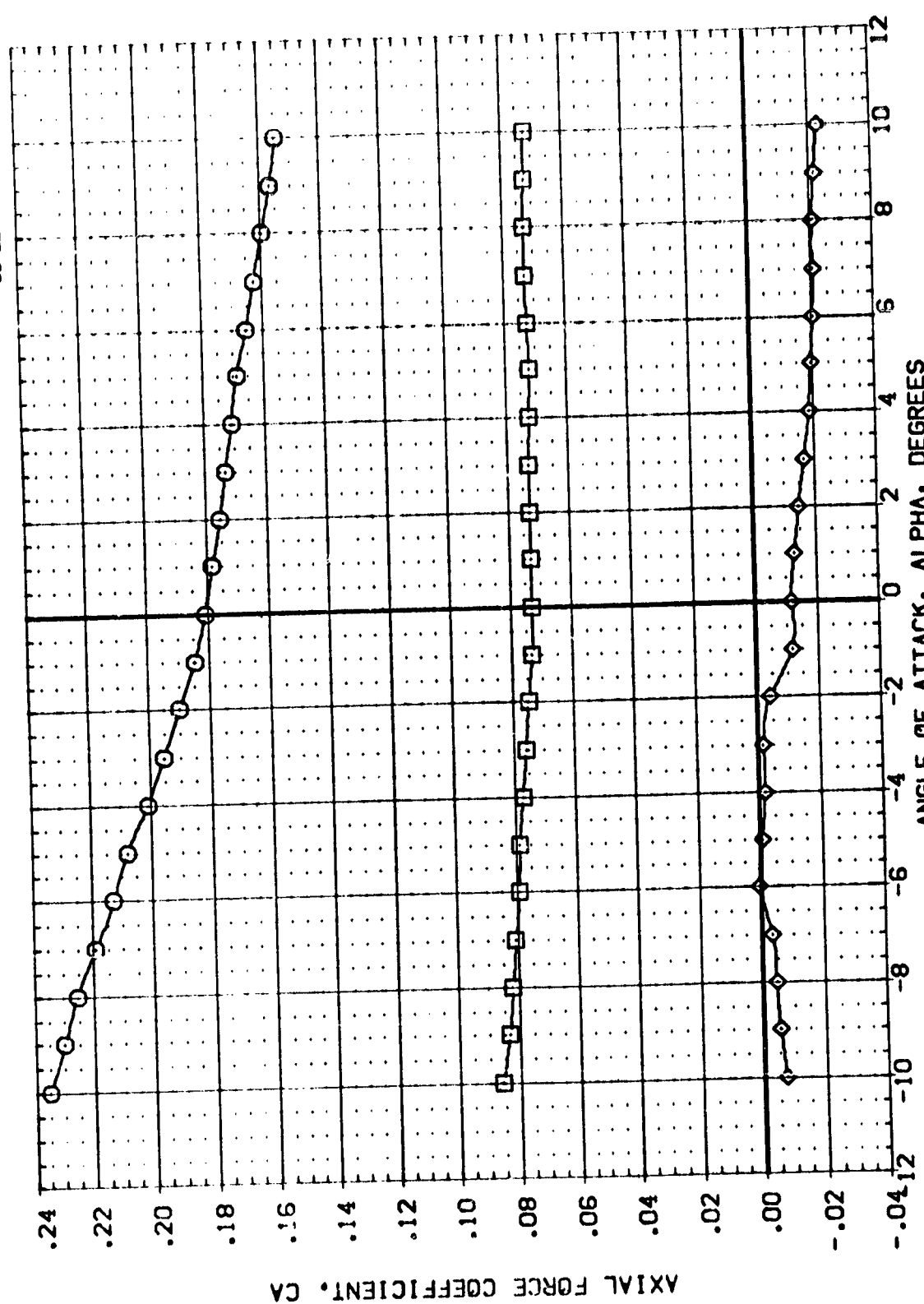
SRBPOS: .100
 1.100

RN/L: 1.760
 1.760 1500.000
 1.760 1500.000

PT-JET: .000
 .000
 .000

BETA: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: 2650.0000 SQ.FT.
 LREF: 1250.3000
 BREF: 1250.3000
 XREF: 1250.3000
 YREF: 1250.3000
 ZREF: 447.0000
 SCALE: .0100

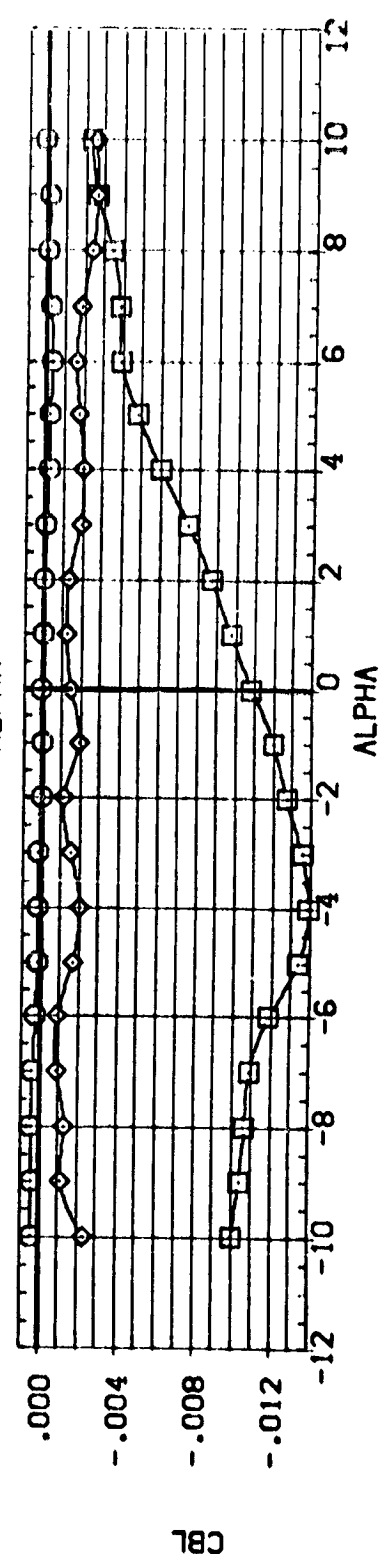
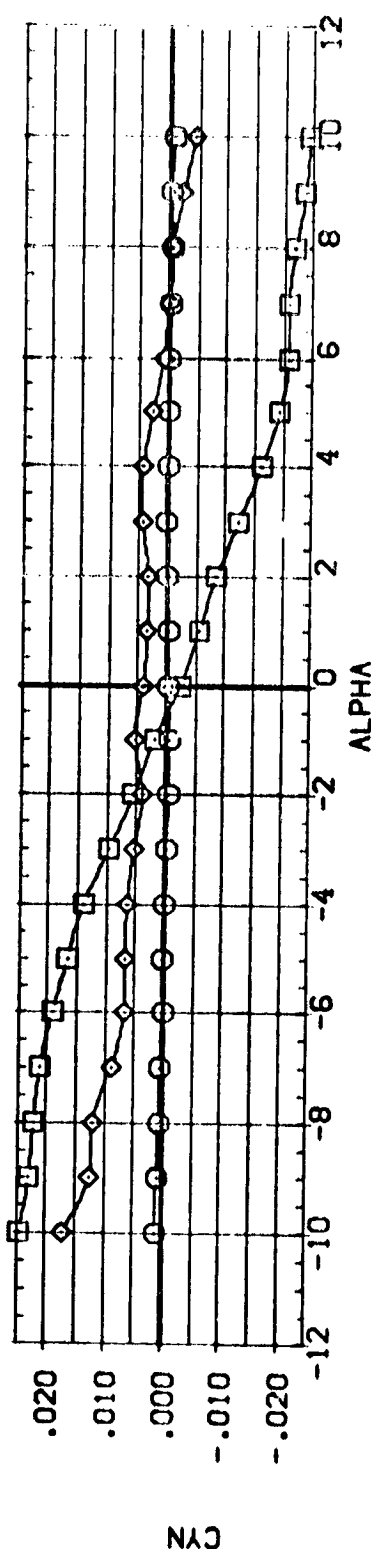
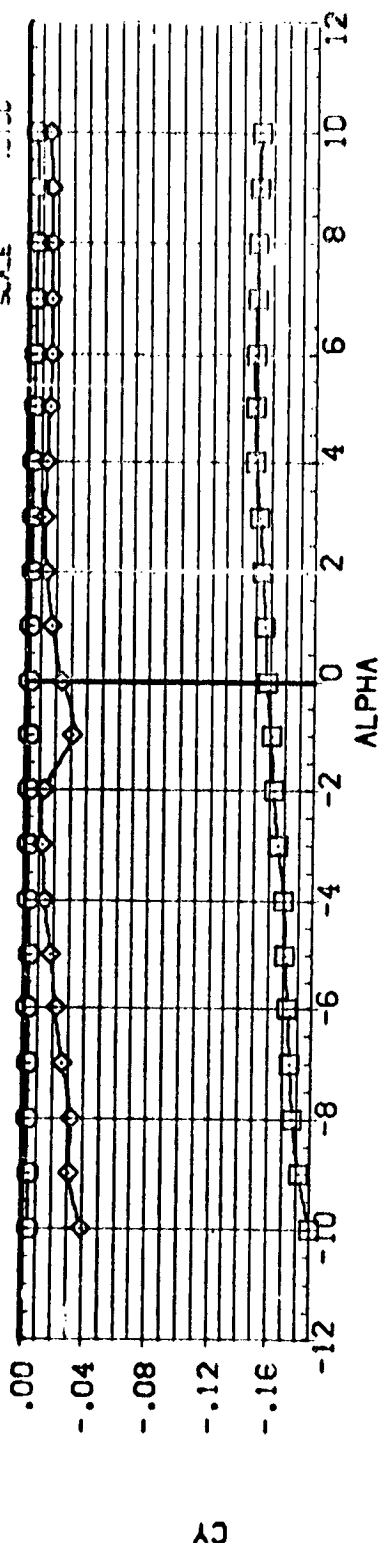


EFFECT OF SRB ON O/EET CHARACTER. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLOO1), (RTLO12), (RTLO38)
 CONFIGURATION DESCRIPTION:
 AEDE VA-422(A-57): ISOLATED SRB/ET
 AEDE VA-422(A-57): SRB/ET V/RIGHT SRB
 AEDE VA-422(A-57): SRB/ET V/BOTH SRB

SRSPOS RVL PT-JET BETA
 1.100 1.700 1500.000
 1.100 1.700 1500.000
 REFERENCE INFORMATION:
 SREF 2850.0000 SC.FT.
 LREF 1200.0000
 BREF 1200.0000
 XREF 1200.0000
 YREF 1200.0000
 ZREF 447.0000
 SCALE



EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL

(RTLO32)
(RTLO14)
(RTLO39)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57); ISOLATED ORB/ET
AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB
AEDC VA-422(1A-57); ORB/ET W/BOTH SRB

SRBPOS

.100
1.100

RVL

1.760
1.760 1500.000
1.760 1500.000

PT-JET

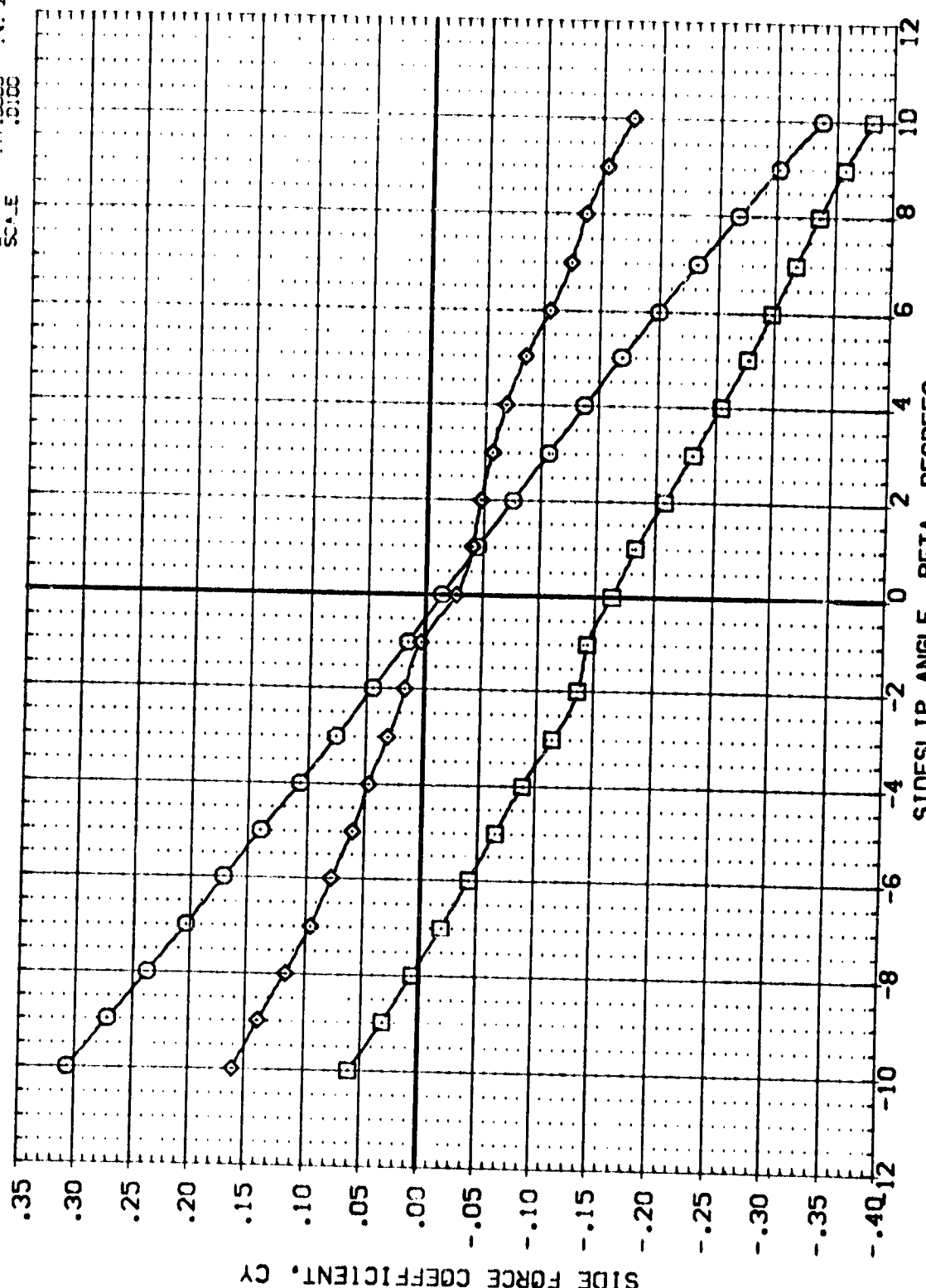
.000
.000
.000

ALPHA

.000
.000
.000

REFERENCE INFORMATION

SREF 2650.0000 SQ.FT.
LREF 1260.3000
BREF 1260.3000
XREF 1552.0000
YREF 447.0000
ZREF 0.0000
SCALE .0100

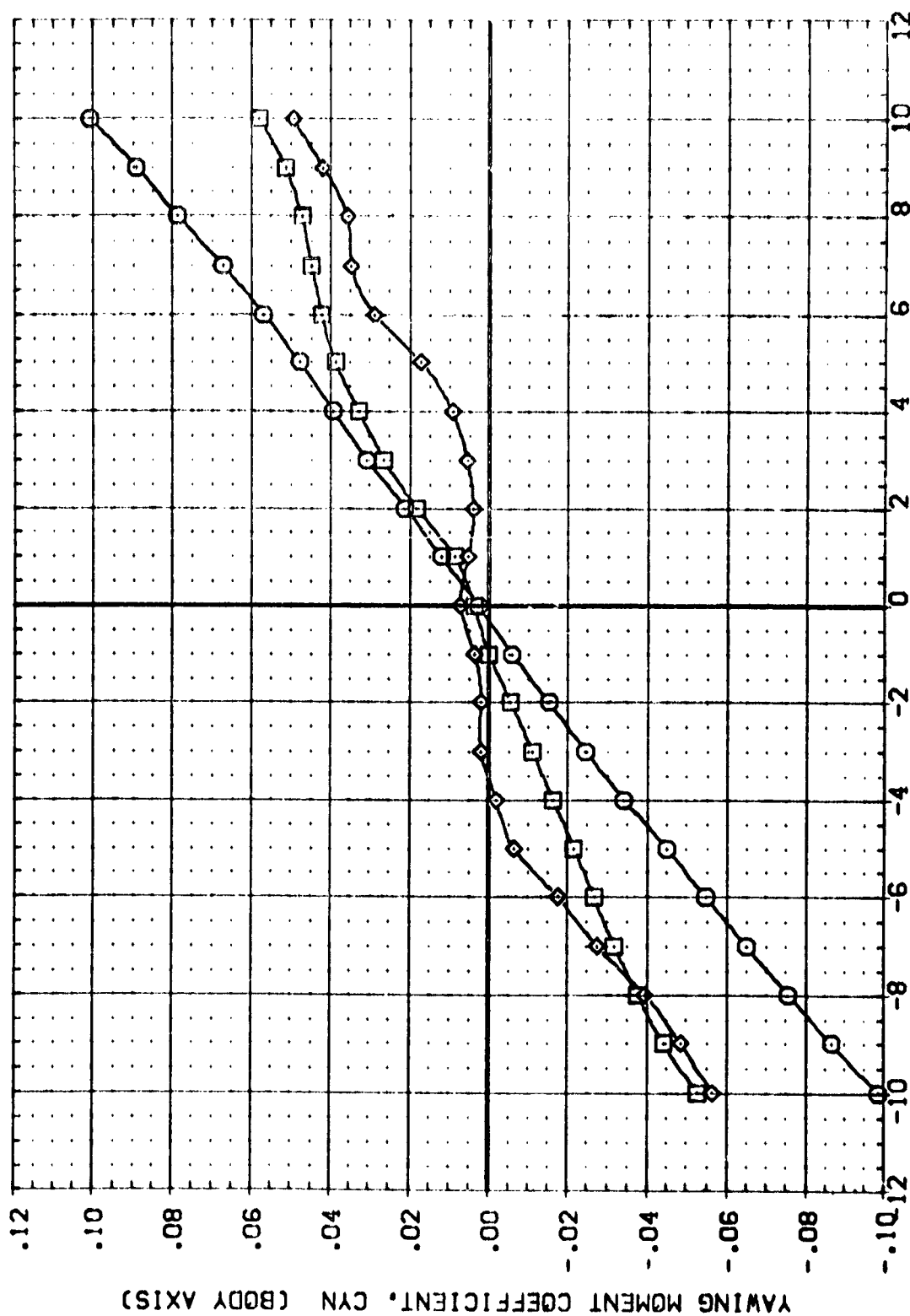


EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=1500)
(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTLO14) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (RTLO39) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRB POS RM/L PT-JET ALPHA
 .100 1.750 .000
 1.100 1.750 1500.000
 1.100 1.750 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.0000 IN.
 BREF 1290.0000 IN.
 XT 1532.0000 IN.
 YREF 1000.0000 IN.
 ZREF 447.0000 IN.
 SCALE .0100



EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

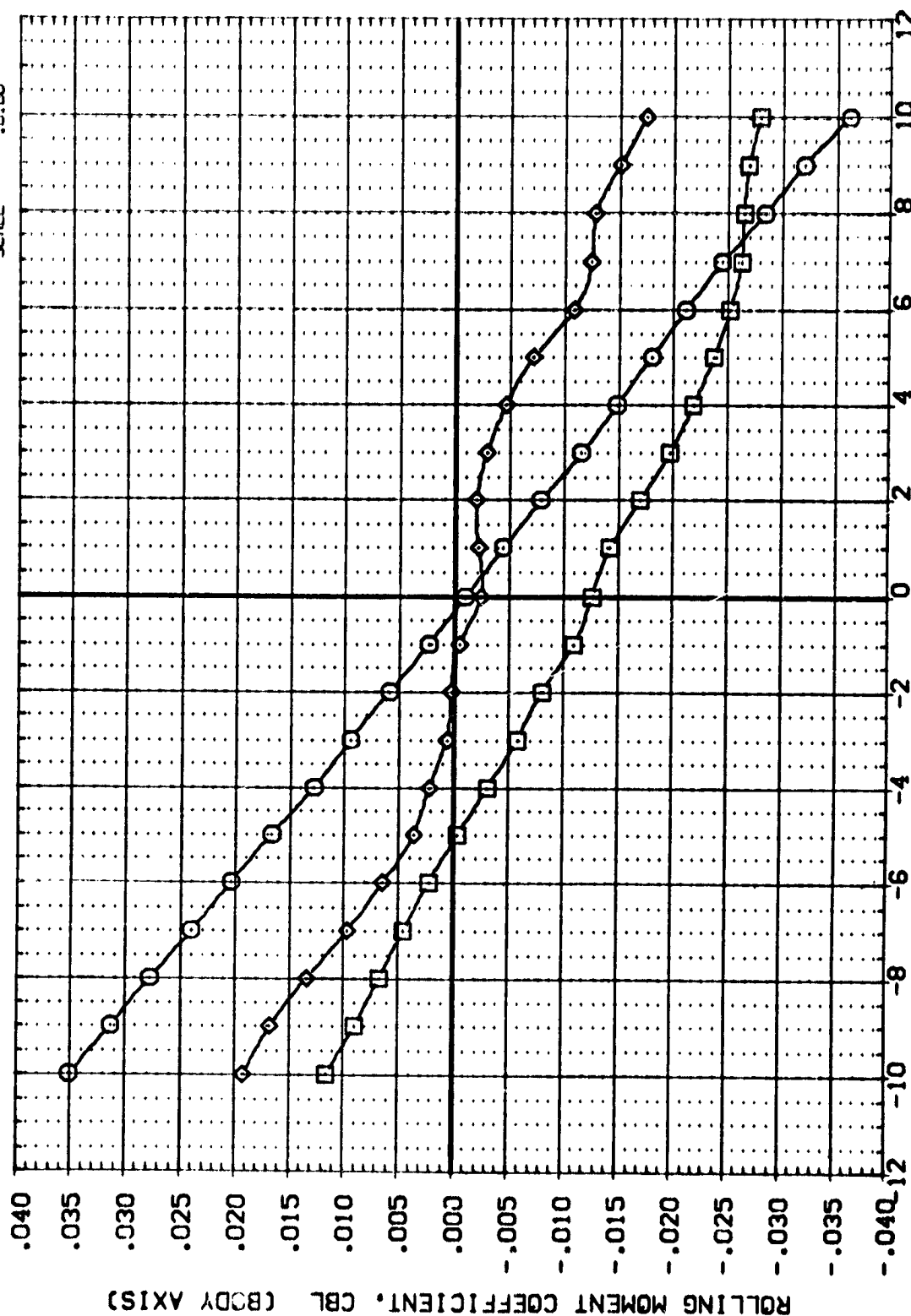
DATA SET SYMBOL
(RTLO02)
(RTLO14)
(RTLO39)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57); ISOLATED ORB/ET
AEDC VA-422(1A-57); ORB/ET V/R(IGH) SRB
AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
.100 1.760 1500.000 .000
1.100 1.760 1500.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.0000 IN.
BREF 1290.0000 IN.
XGRP 1052.0000 IN. XT
YGRP 5000 IN. YT
ZGRP 447.0000 IN. ZT
SCALE .0100

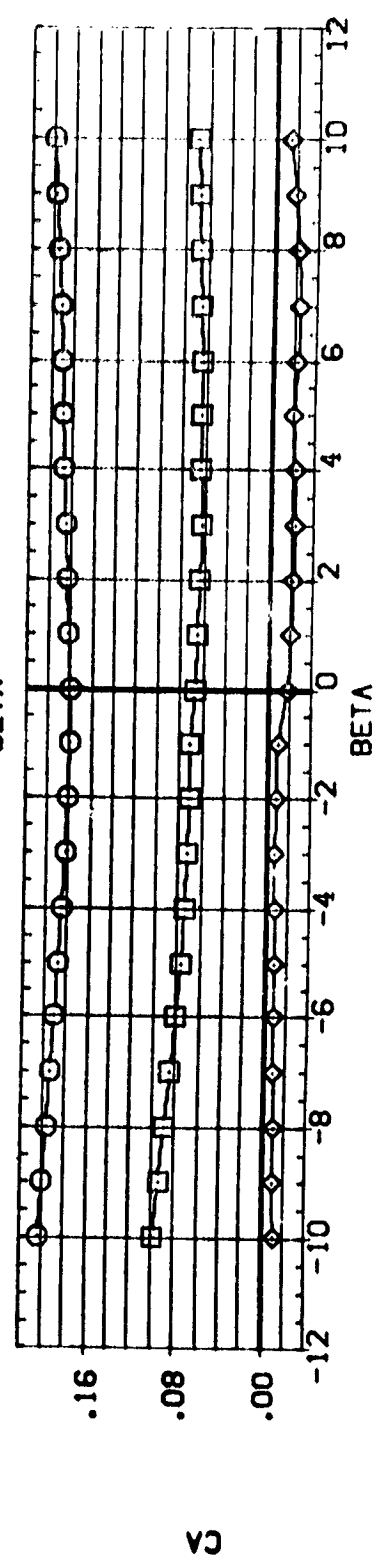
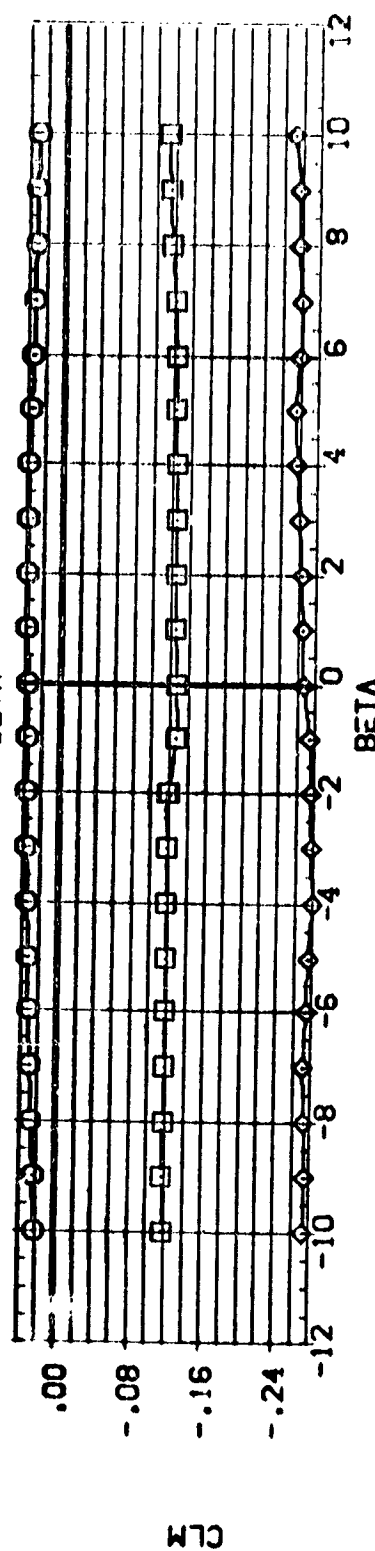
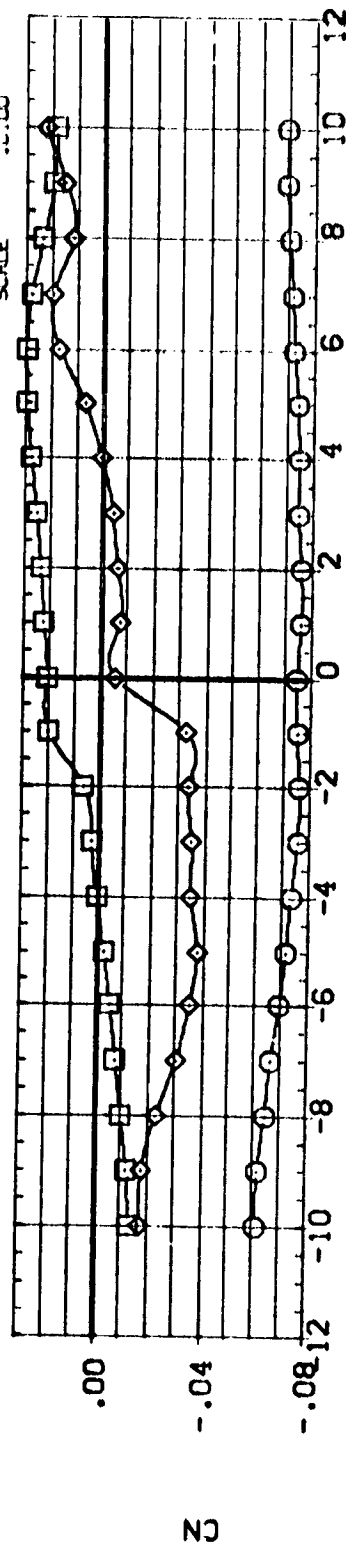


EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(A-57), ISOLATED ORB/ET
 (RTLO14) AEDC VA-422(A-57), ORB/ET V/RIGHT SRB
 (RTLO39) AEDC VA-422(A-57), ORB/ET V/BOTH SRB

SRRPOS RV/L PT-JET ALPHA REFERENCE INFORMATION
 .100 1.760 .000 SREF 2650.0000 SD.FT.
 1.100 1.760 1500.000 LREF 1290.3000 IN.
 1.100 1.760 1500.000 XPRP 1290.3000 IN. XT
 YPRP 1052.0000 IN. YT
 ZPRP .0000 IN. ZT
 SCALE 447.0000



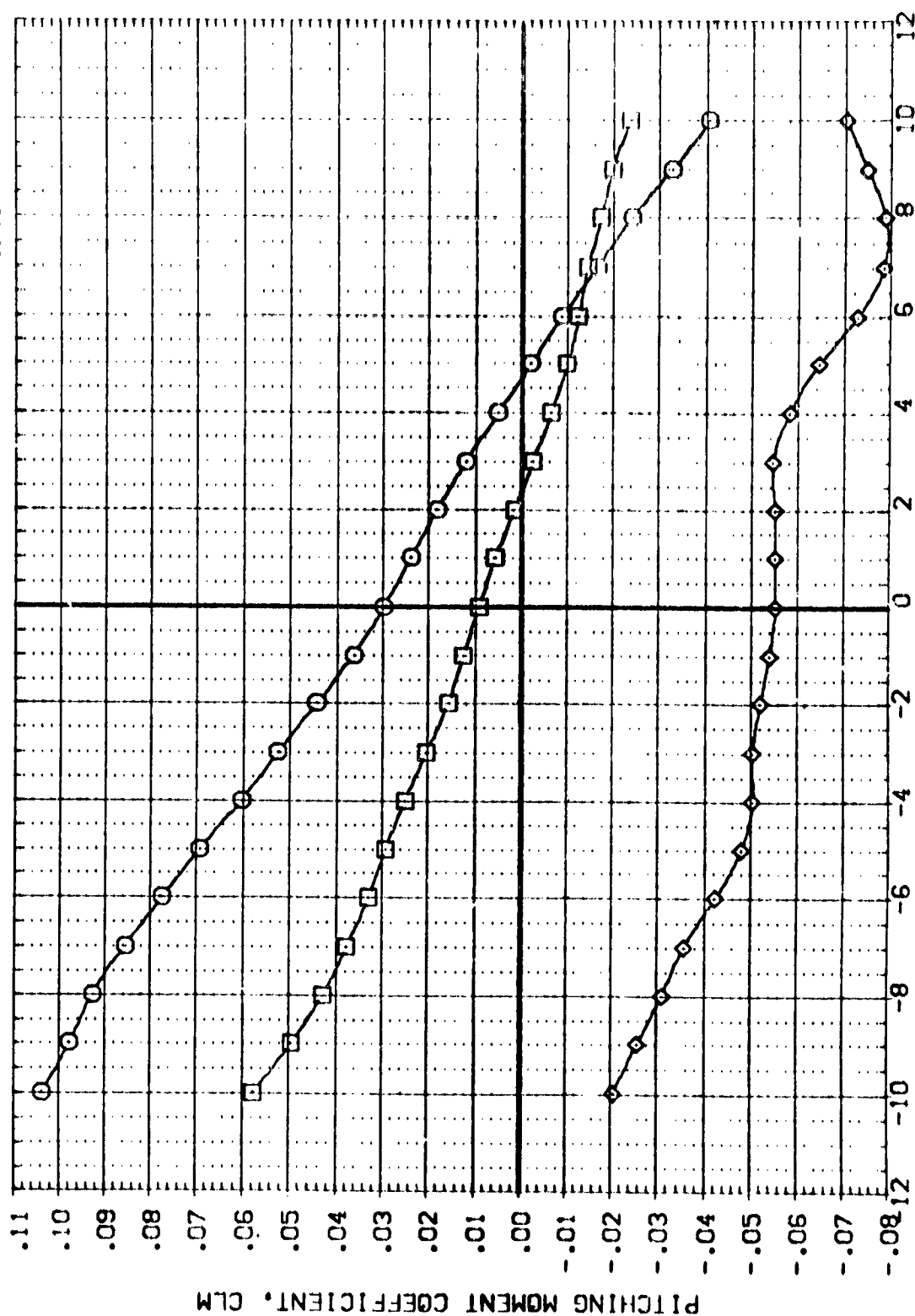
EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R1001) AEDC VA-422(A-57), ISOLATED ORB/ET
 (R1002) AEDC VA-422(A-57), ORB/ET W/RIGHT SRB
 (R1049) AEDC VA-422(A-57), ORB/ET W/BOTH SRB

SRBPOS RVAL PT-JET BETA
 .200 1.760 1500.000
 2.200 1.760 1500.000

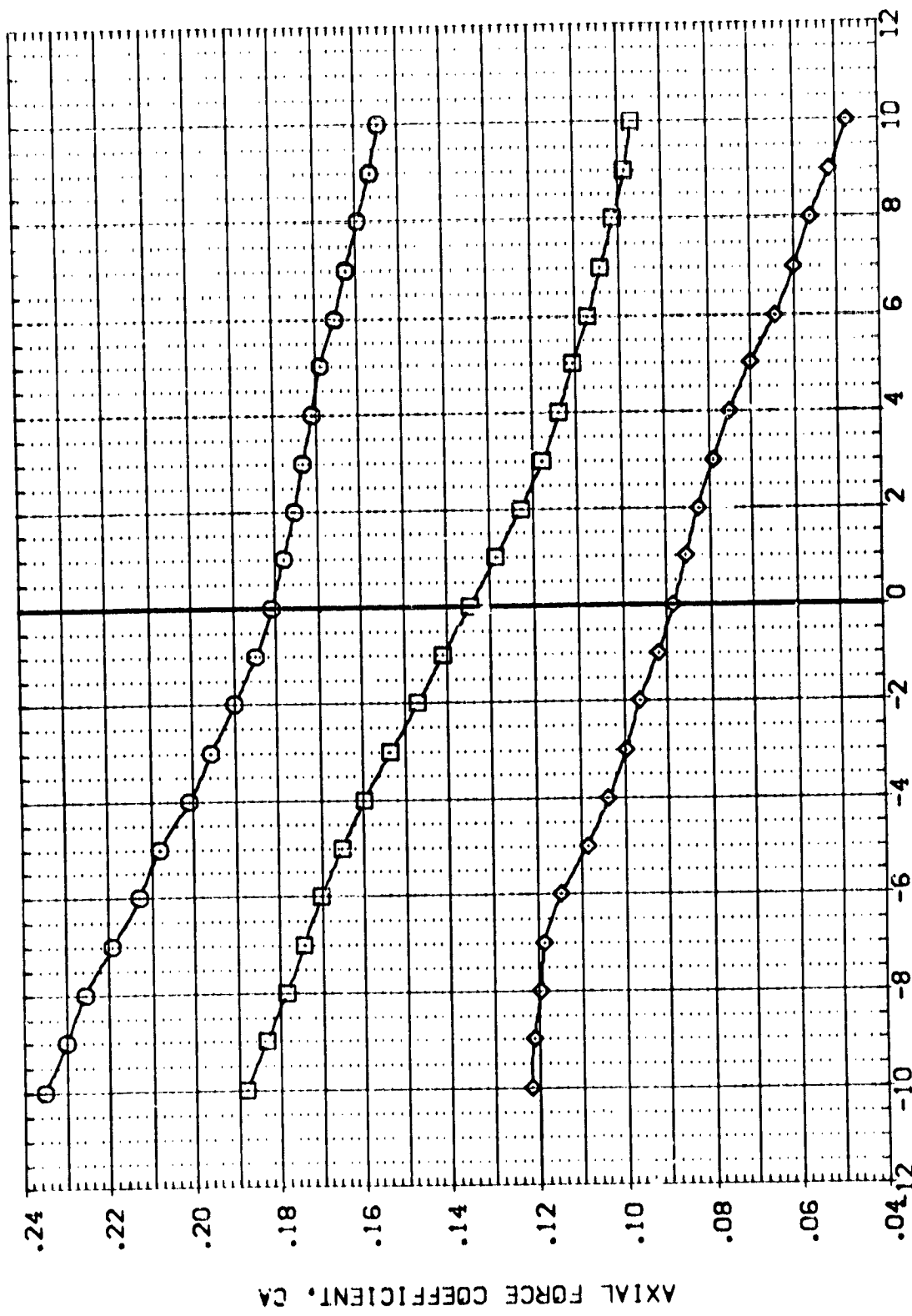
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 XREF 290.3000 IN.
 YREF 290.3000 IN.
 XZPO 1052.0000 IN.
 YZPO 447.0000 IN.
 ZREF 447.0000 IN.
 SCALE .0100



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=1500)

(A) MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	BETA	REFERENCE INFORMATION
(R1001)	AEDC VA-422(A-57); ISOLATED ORB/ET	.200	1.760		.000	SRCE 2550.0000
(R1002)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	2.200	1.760 1500.000		.000	REF 180.0000
(R1049)	AEDC VA-422(A-57); ORB/ET V/BOTH SRB		1.760 1500.000		.000	REF 180.0000
						WV00 1251.0000
						ZW00 447.0000
						SCALE



AXIAL FORCE COEFFICIENT, CA

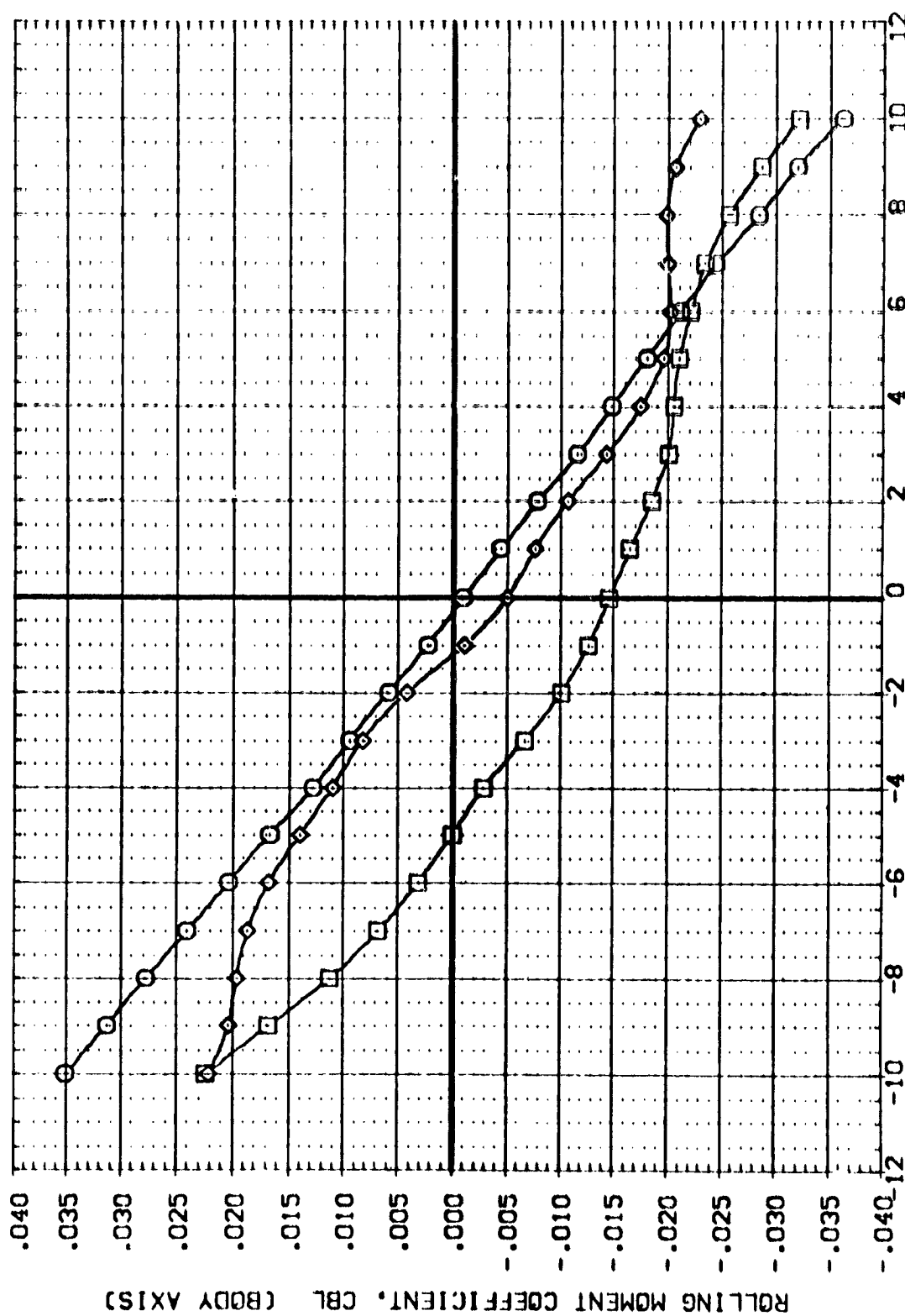
ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (PT-002) AEDC VA-422(A-57): ISOLATED ORB/ET
 (PT-022) AEDC VA-422(A-57): ORB/ET W/RIGHT SRB
 (PT-050) AEDC VA-422(A-57): ORB/ET W/BOTH SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION
 .200 1.760 1500.000 .000 SRB 2580.0000 SQ.FT.
 2.200 1.760 1500.000 .000 LRF 2580.0000
 X-REF 2580.0000
 Y-REF 2580.0000
 Z-REF 2580.0000
 SCALE 45.0000

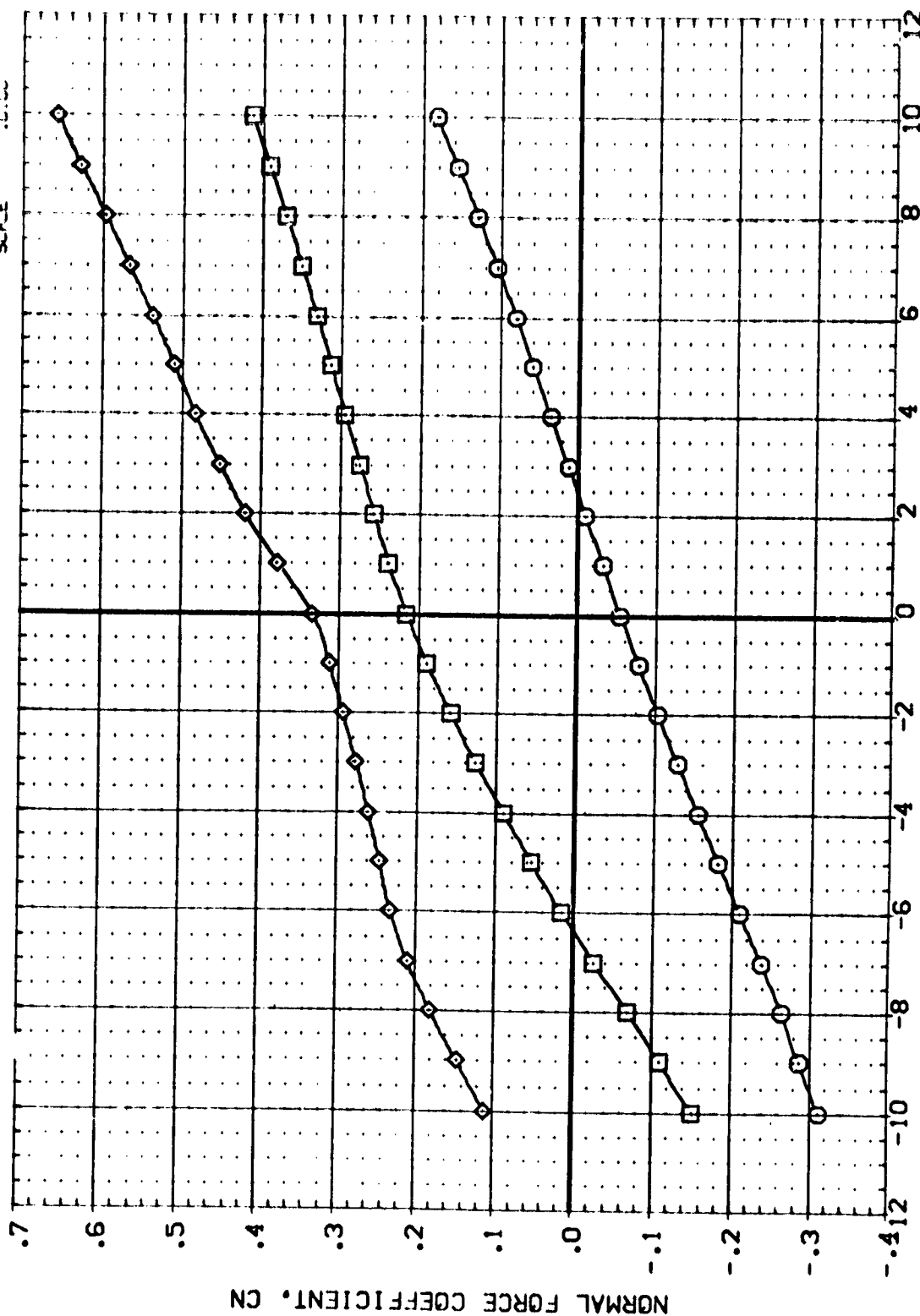


EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLOG1) AEDC VA-422(A-57), ISOLATED ORB/ET
 (RTLOG2) AEDC VA-422(A-57), ORB/ET V/RIGHT SRB
 (RTLOG3) AEDC VA-422(A-57), ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .300 1.760 .000 SREF 2680 3000 SC.F.
 3.300 1.760 1500.000 LREF 1280 3000
 .000 1.760 1500.000 BREF 1280 3000
 XREF 1280 3000
 YREF 1280 3000
 ZREF 1280 3000
 SCALE 447 .0000



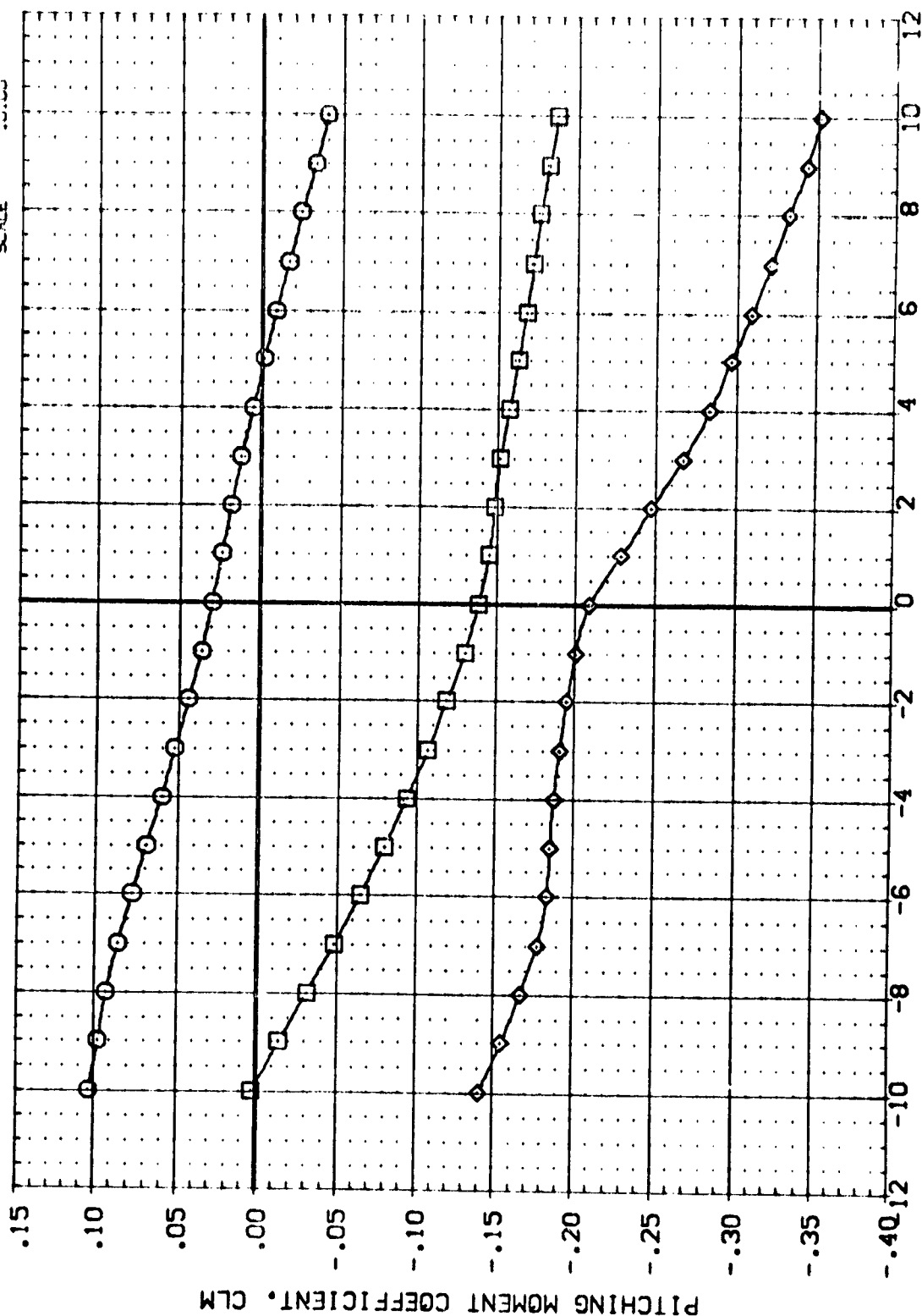
EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(IA-57); ISOLATED ORB/ET
 (RTLO29) AEDC VA-422(IA-57); ORB/ET V/RIGHT SRB
 (RTLO60) AEDC VA-422(IA-57); ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET BETA
 300 1.760 1500.000
 3.300 1.760 1500.000

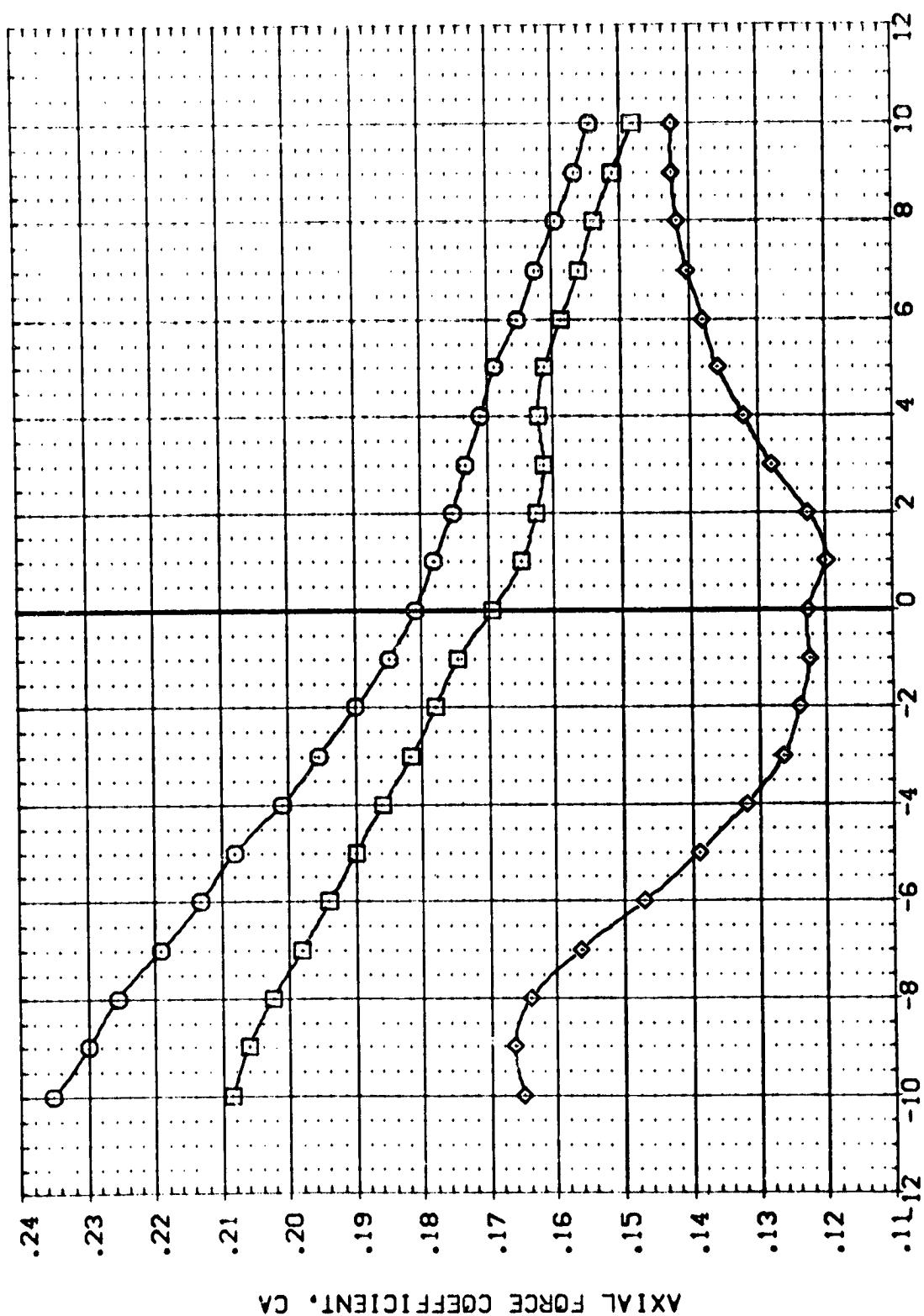
REFERENCE INFORMATION
 SRB REF 2680.0000 SQ.FT.
 L REF 1250.3000 IN.
 BRG REF 1250.3000 IN.
 XMRP 1052.0000 IN.
 YMRP 0.0000 IN.
 ZMRP 447.0000 IN.
 SCALE 0.000



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=1500)

(A) MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRBPOS		RN/L	PT-JET	BETA	REFERENCE INFORMATION	
[RTLO01]	AEDC VA-422(1A-57)	ISOLATED ORB/ET		.300	1.760	.000			SREF	2690.0000
[RTLO29]	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB		3.300	1.760	.000			LREF	1290.3000
[RTLO50]	AEDC VA-422(1A-57)	ORB/ET V/BOTH SRB							SREF	1290.3000
									XREF	1290.3000
									YREF	1290.3000
									ZREF	1290.3000
									SCALE	447.0000
										50.00



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=1500)

(A)MACH = 4.50

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO01) AEDC VA-422(1A-57): ISOLATED ORB/ET

(RTLO29) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

(RTLO60) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET BETA REFERENCE INFORMATION

300 1.750 1500.000 SREF 2690.0000 SQ.F.

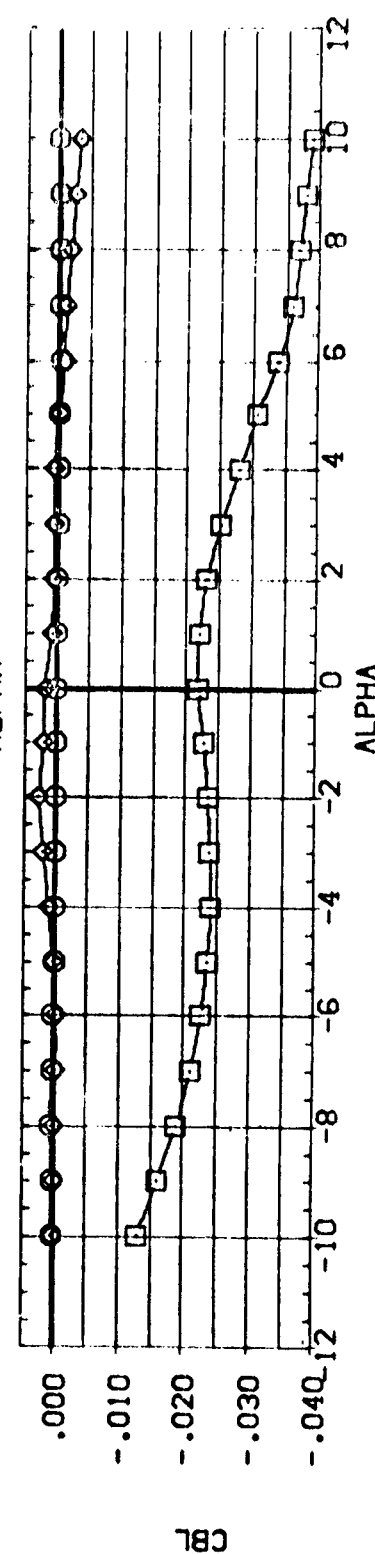
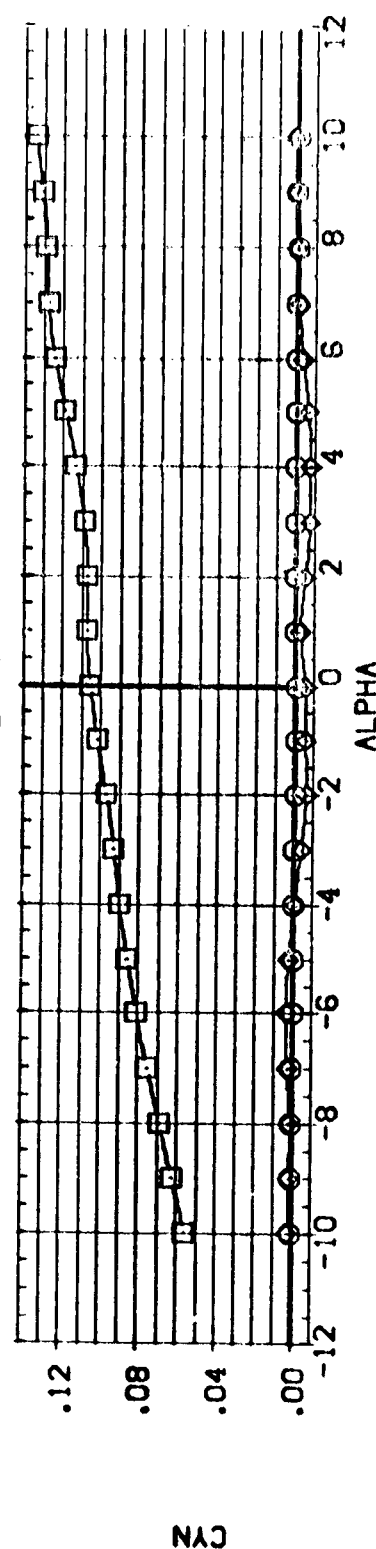
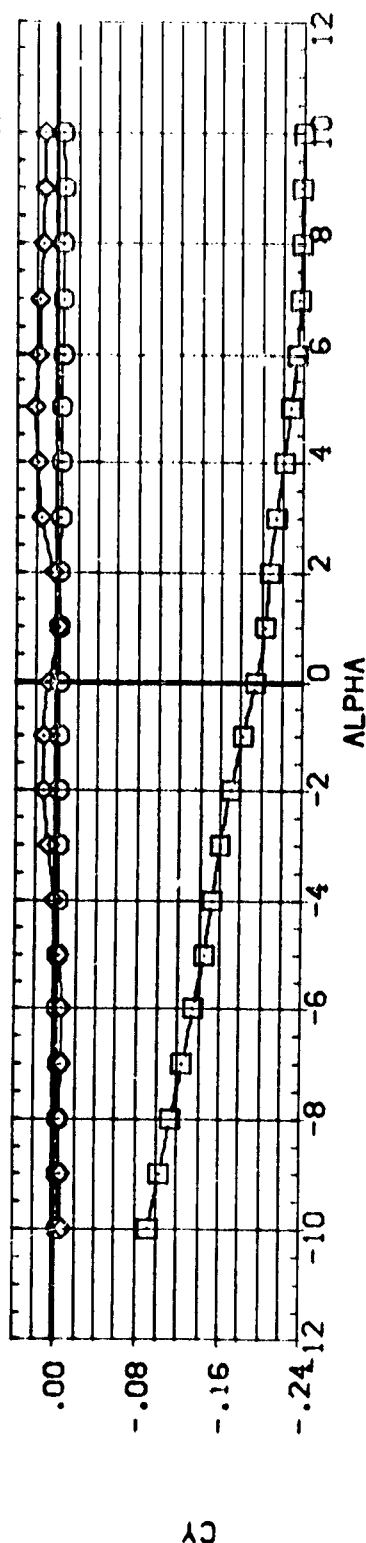
3.300 1.750 1500.000 LREF 1290.3000 IN.

NRPD 1290.3000 IN. XI

YMRP 1290.3000 IN. YI

ZMRP 447.0000 IN. ZI

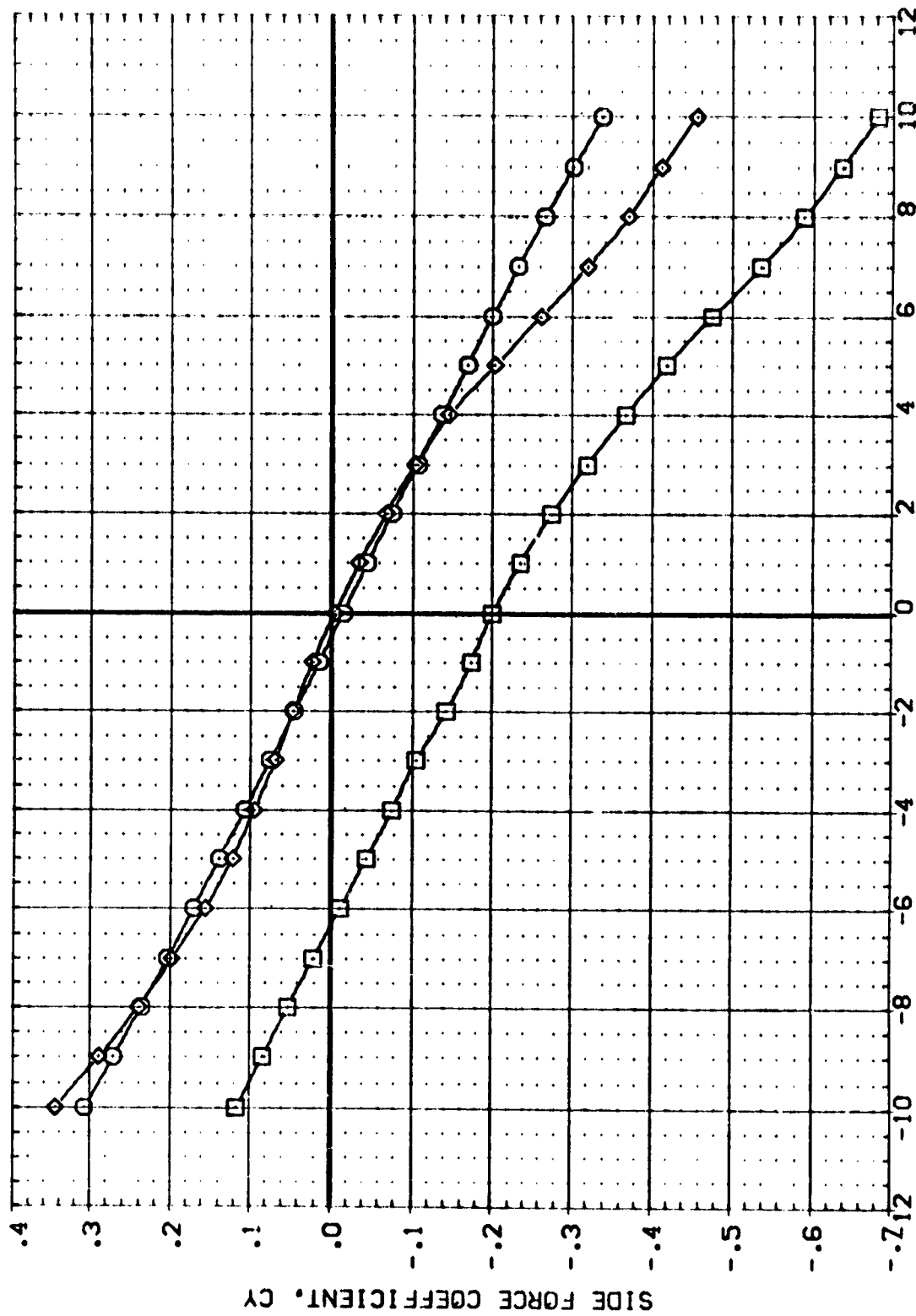
SCALE .0100



EFFECT OF SRB ON O/ET CHARACT. (POSITION 3, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION	
(RTLO02)	□	AEDC VA-422(A-57): ISOLATED ORB/JET	300	1.760	.000	SREF	2650.0000	SC.FT.
(RTLO30)	◇	AEDC VA-422(A-57): ORB/JET V/RIGHT SRB	.300	1.760	.000	LREF	1200.0000	
(RTLO61)	◇	AEDC VA-422(A-57): ORB/JET V/BOTH SRB	3.300	1.760	.000	BREF	1200.0000	
						X-REF	1552.0000	
						Y-REF	1552.0000	
						Z-REF	447.0000	
						SCALE		



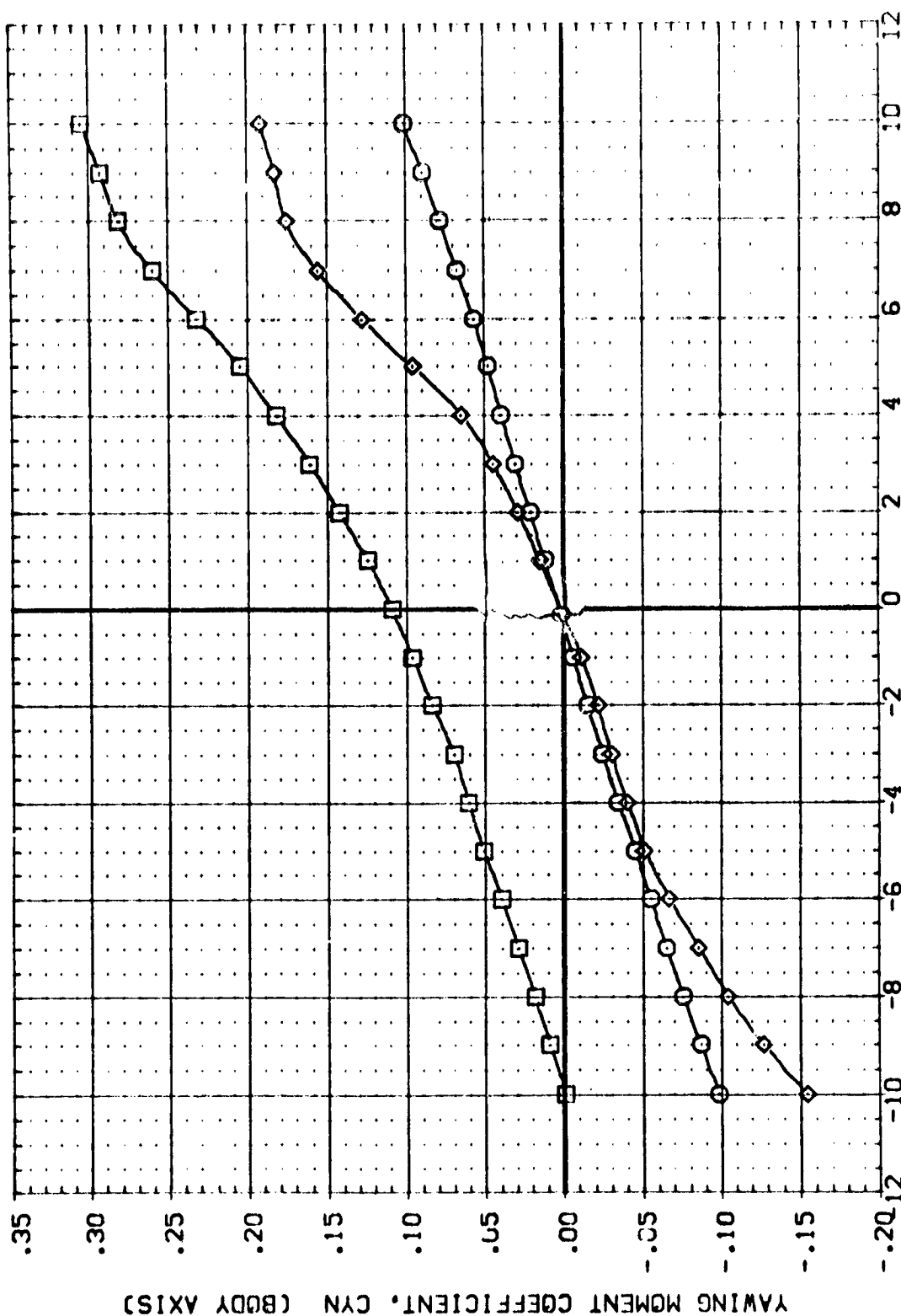
EFFECT OF SRB ON O/EET CHARACTER. (POSITION 3, PT/JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(A-57); ISOLATED ORB/ET SRB
 (RTLO30) AEDC VA-422(A-57); ORB/ET V/RIGHT SRB
 (RTLO61) AEDC VA-422(A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
 .300 1.760 .000
 3.300 1.760 1500.000
 1500.000

REFERENCE INFORMATION
 SREF 2650.0000 SC.FT.
 LREF 1280.3000
 SREF 1280.3000
 XREF 1280.3000
 YREF 1280.3000
 ZREF 1280.3000
 SCALE 447.0000



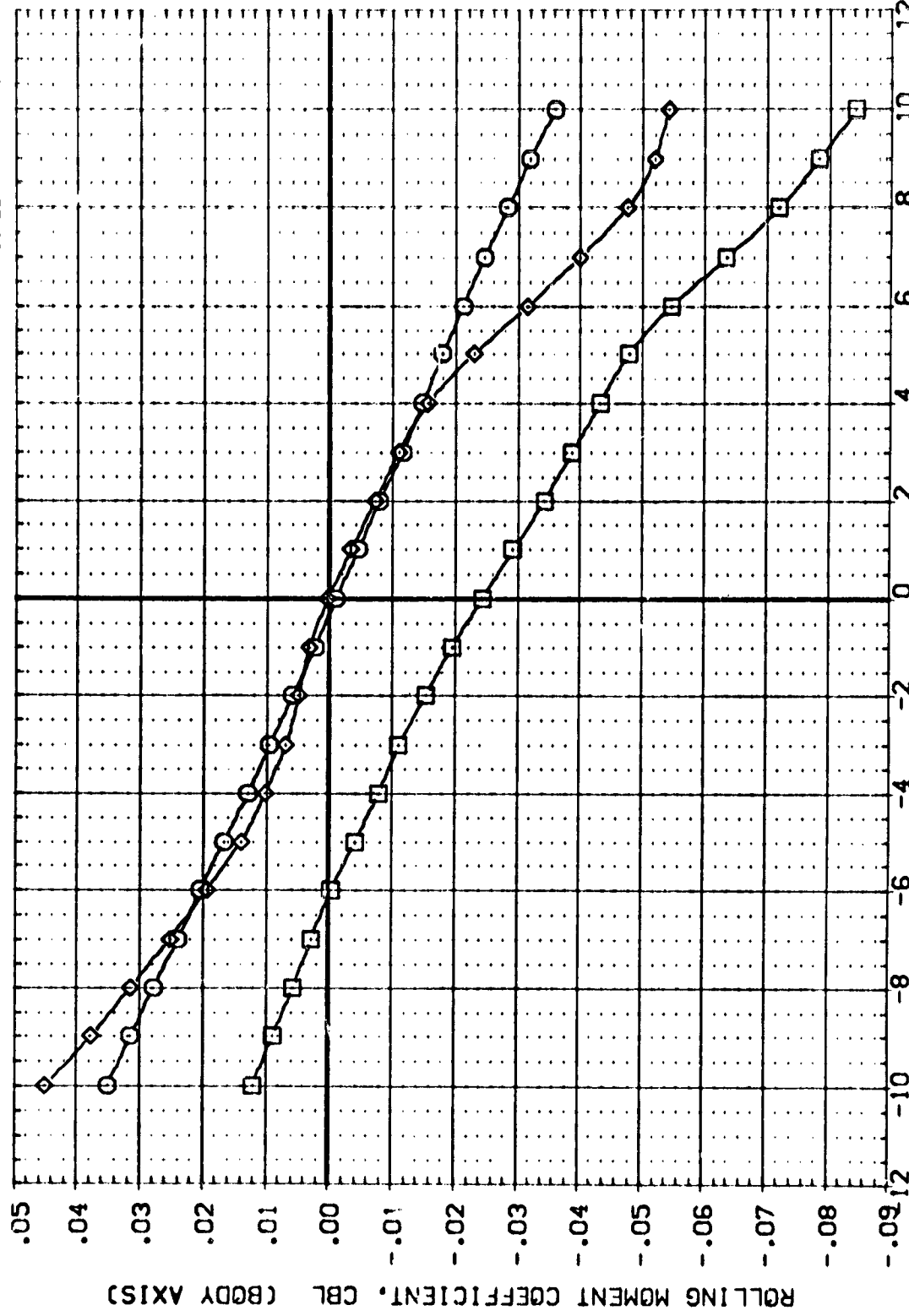
EFFECT OF SRB ON O/ET CHARACT. (POSITION 3, PT/JET=1500)

(A)MACH = 0.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLOG) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (PTLOG) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (PLOG) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RNL PT-JET ALPHA
 .300 .760 .000
 3.300 .760 1500.000
 .000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN.
 BREF 1290.3000 IN.
 XPRD 1052.0000 IN.
 YPRD 1000.0000 IN.
 ZPRD 447.0000 IN.
 SCALE .0100



EFFECT OF SRB ON O/ET CHARACT. (POSITION 3, PT/JET=1500)

(A)MACH = 4.50

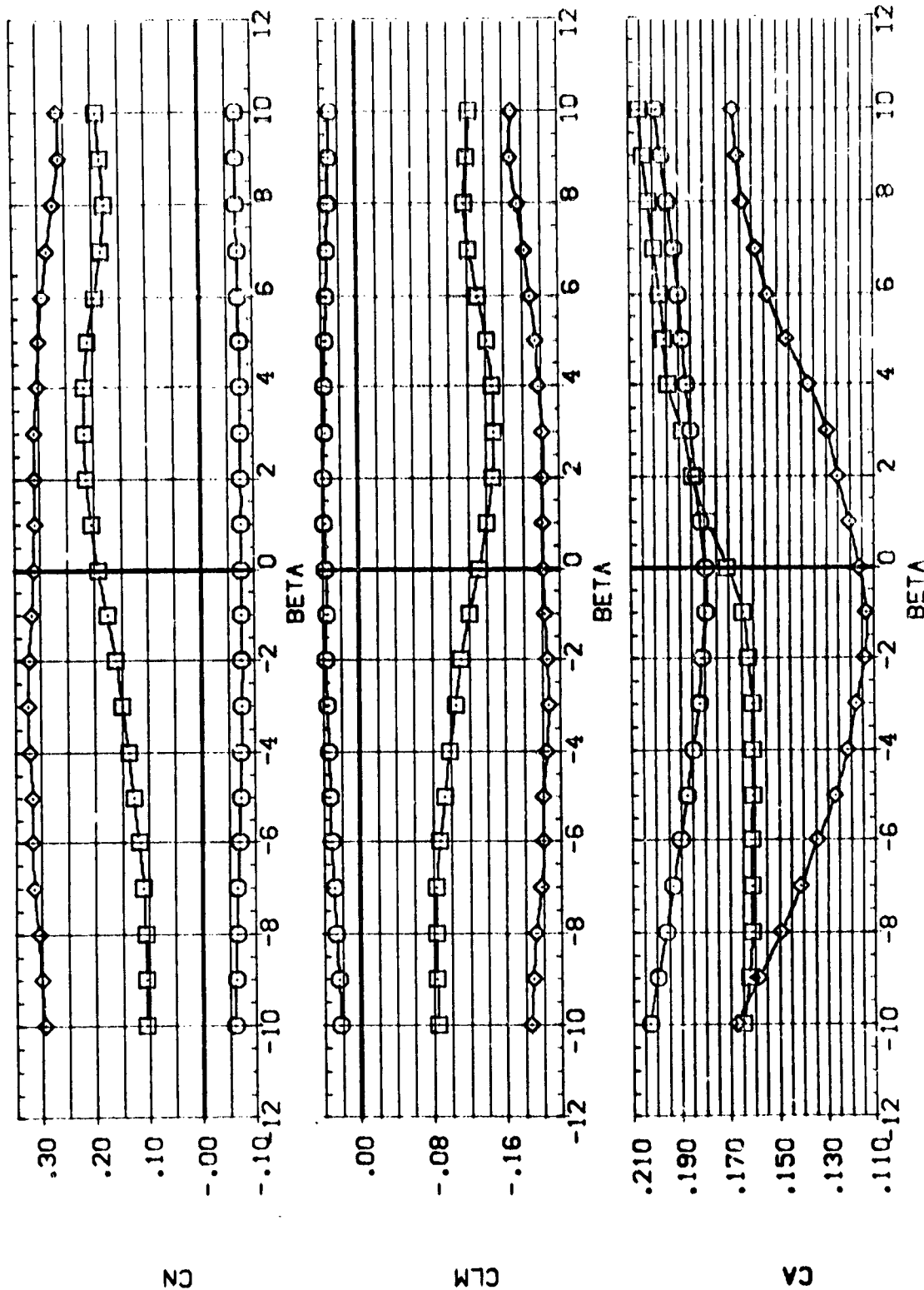
DATA SET SYMBOL

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57). ISOLATED ORB/ET
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). CRB/ET V/BOTH SRB

SRPOS	RV/L	PT-JET	ALPHA
	1.760		.000
.300	1.760	1500.000	.000
3.300	1.760	1500.000	.000

REFERENCE INFORMATION	
SREF	2690 0000
135E	1290 3000
135E	1290 3000
0000	1252 0000
0000	447 0000
SCALE	1000



EFFECT OF SRB ON O/VET CHARACT. (POSITION 3. PT/JET=1500)

$$[A]^{MACH} = 4.50$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO01) AEDC VA-422(A-57); ISOLATED ORB/ET
 (RTLO11) AEDC VA-422(A-57); ORB/ET V/RIGHT SRB
 (RTLO36) AEDC VA-422(A-57); ORB/ET V/BOTH SRB

SRBPOS

.100
1.100

RVL

1.760
1.760
1.760

PT-JET

750,000
750,000
750,000

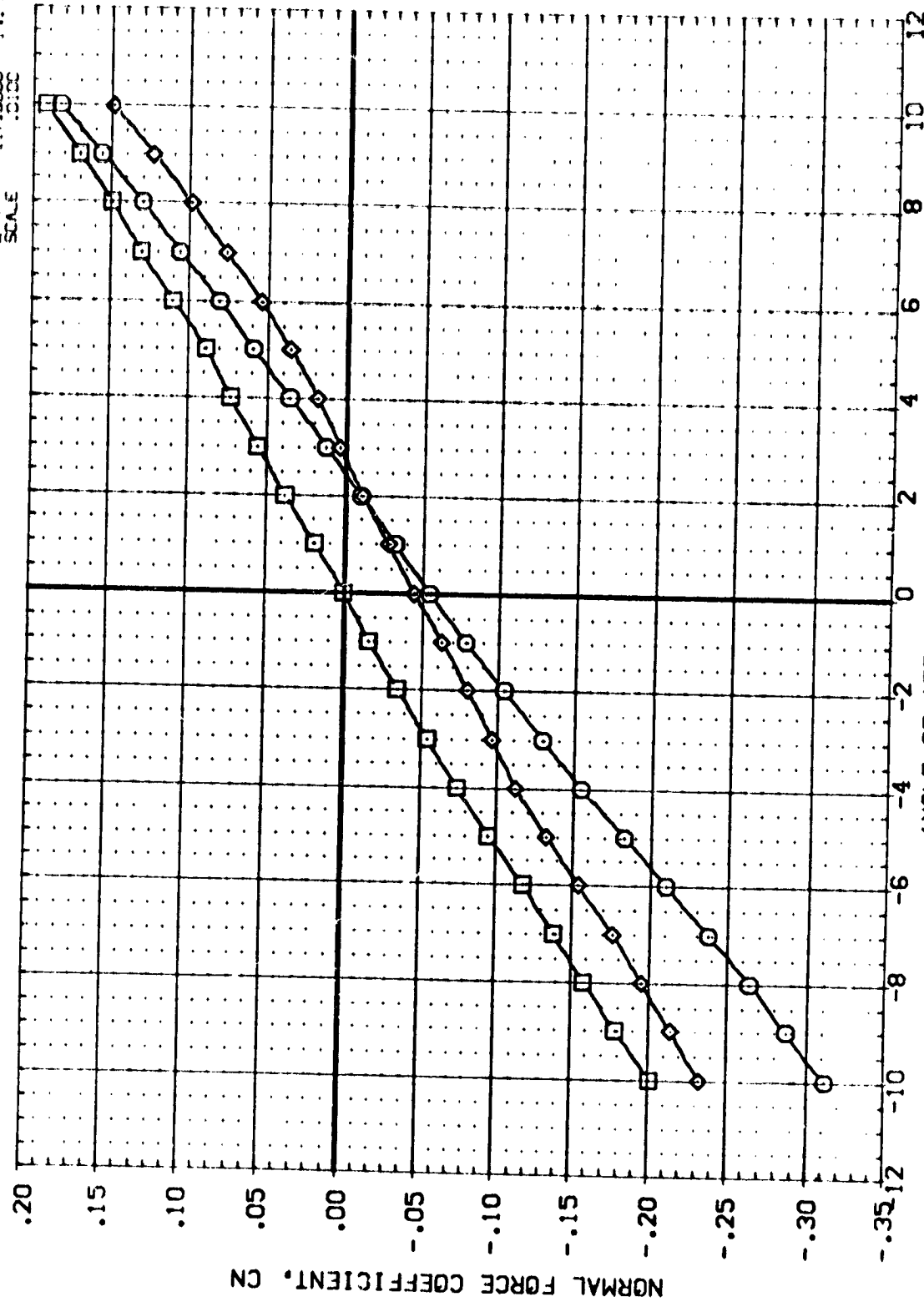
BETA

.000
.000
.000

REFERENCE INFORMATION

SREF 2690.0000
LREF 290.0000
BREF 290.0000
XREF 290.0000
YREF 290.0000
ZREF 290.0000
SCALE 447.0100

SO-ET.
N.
N.
N.
N.
N.
N.



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 1, PT/JET=750)
 (A)MACH = 4.50

AEDC VA-422(1A-57). ISOLATED ORB/ET
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/BOTH SRB

REFERENCE INFORMATION	
SREF	2580 0000
REF	280 0000
REF	1280 3000
XREF	1052 0000
YREF	0000
ZREF	447 0000
SCALE	0.000

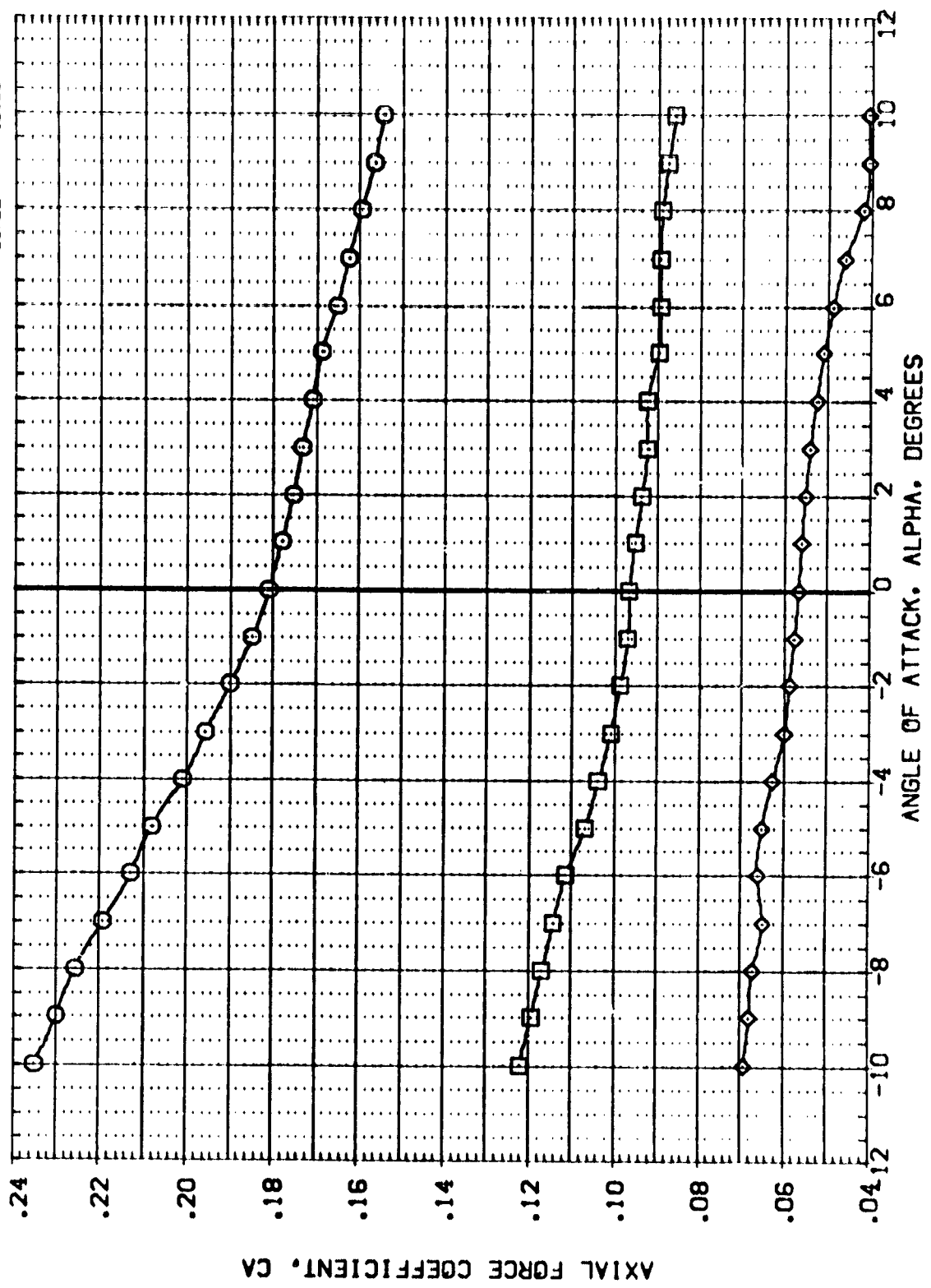


EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=750)

$$[A]_{MACH} = 4.50$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RT1001) AEDC VA-422(A-57); ISOLATED SRB/JET
 (RT1002) AEDC VA-422(A-57); GRB/JET W/RIGHT SRB
 (RT1003) AEDC VA-422(A-57); GRB/JET W/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 750.000 SREF 2690.0000 SQ.FT.
 1.100 1.760 750.000 LREF 1750.0000 IN.
 1.100 1.760 750.000 YREF 1750.0000 IN.
 1.100 1.760 750.000 XREF 1750.0000 IN.
 1.100 1.760 750.000 YZP 447.0000 IN.
 1.100 1.760 750.000 XZP 447.0000 IN.
 1.100 1.760 750.000 SCALE 1.0000



EFFECT OF SRB ON O/JET CHARACTERISTICS. (POSITION 1, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL

(RTLO01)
(RTLO11)
(RTLO36)

CONFIGURATION DESCRIPTION

AEDE VA-422(1A-57); ISOLATED ORB/ET
AEDE VA-422(1A-57); ORB/ET V/RIGHT SRB
AEDE VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS

.100
1.100

RN/L

1.760
1.760
1.760

PT-JET

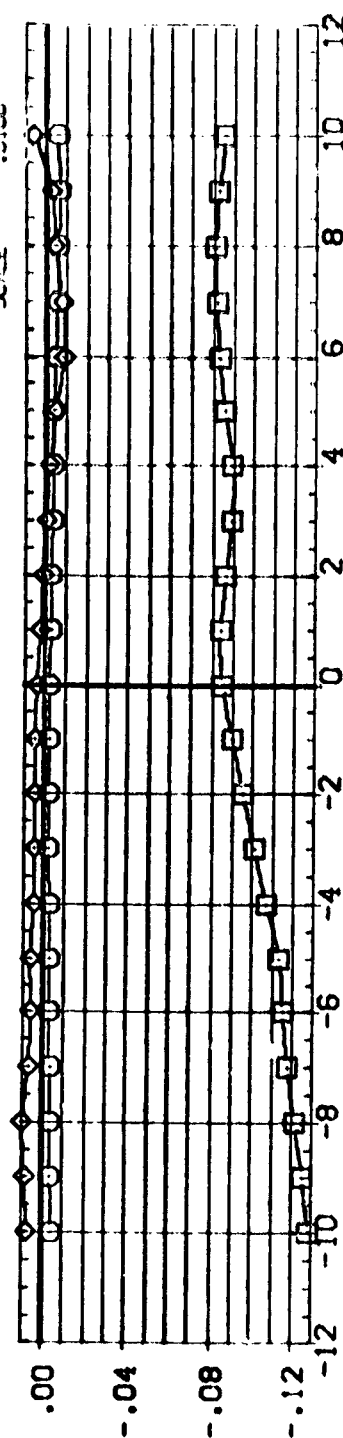
750.000
750.000
750.000

BETA

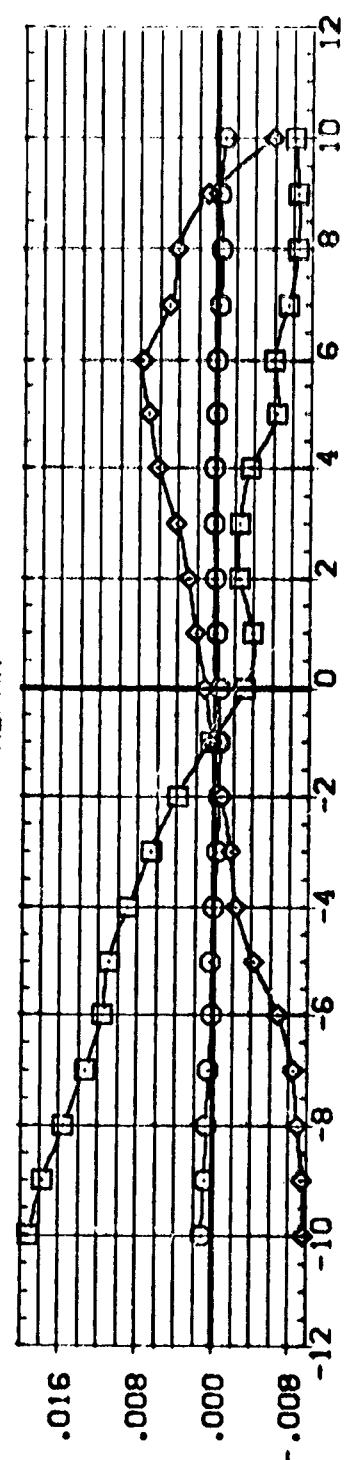
.000
.000
.000

REFERENCE INFORMATION

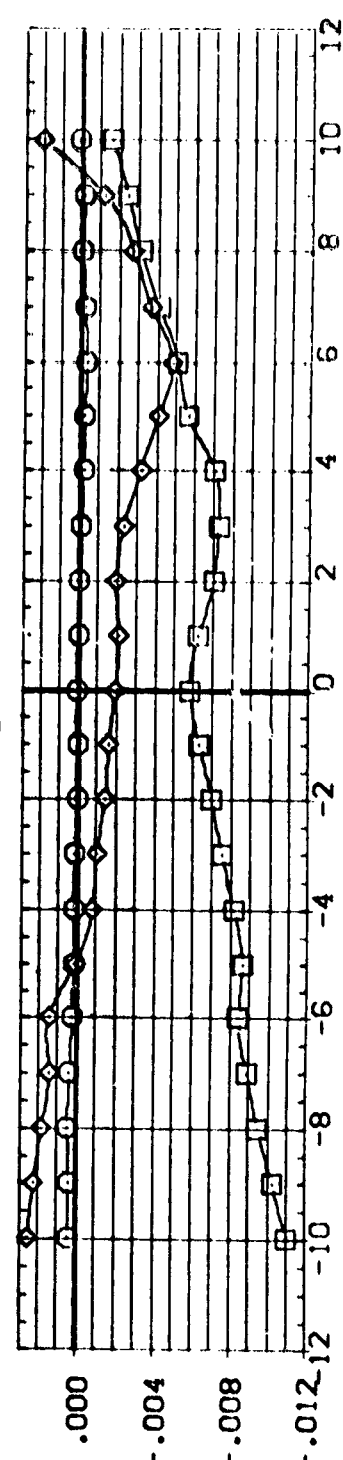
SREF 2690.0000 SD.FT.
LREF 1750.3000 IN.
BREF 1750.3000 IN.
XREF 152.0000 IN.
YREF 447.0000 IN.
ZREF 447.0000 IN.
SCALE .0100



CY



CYN



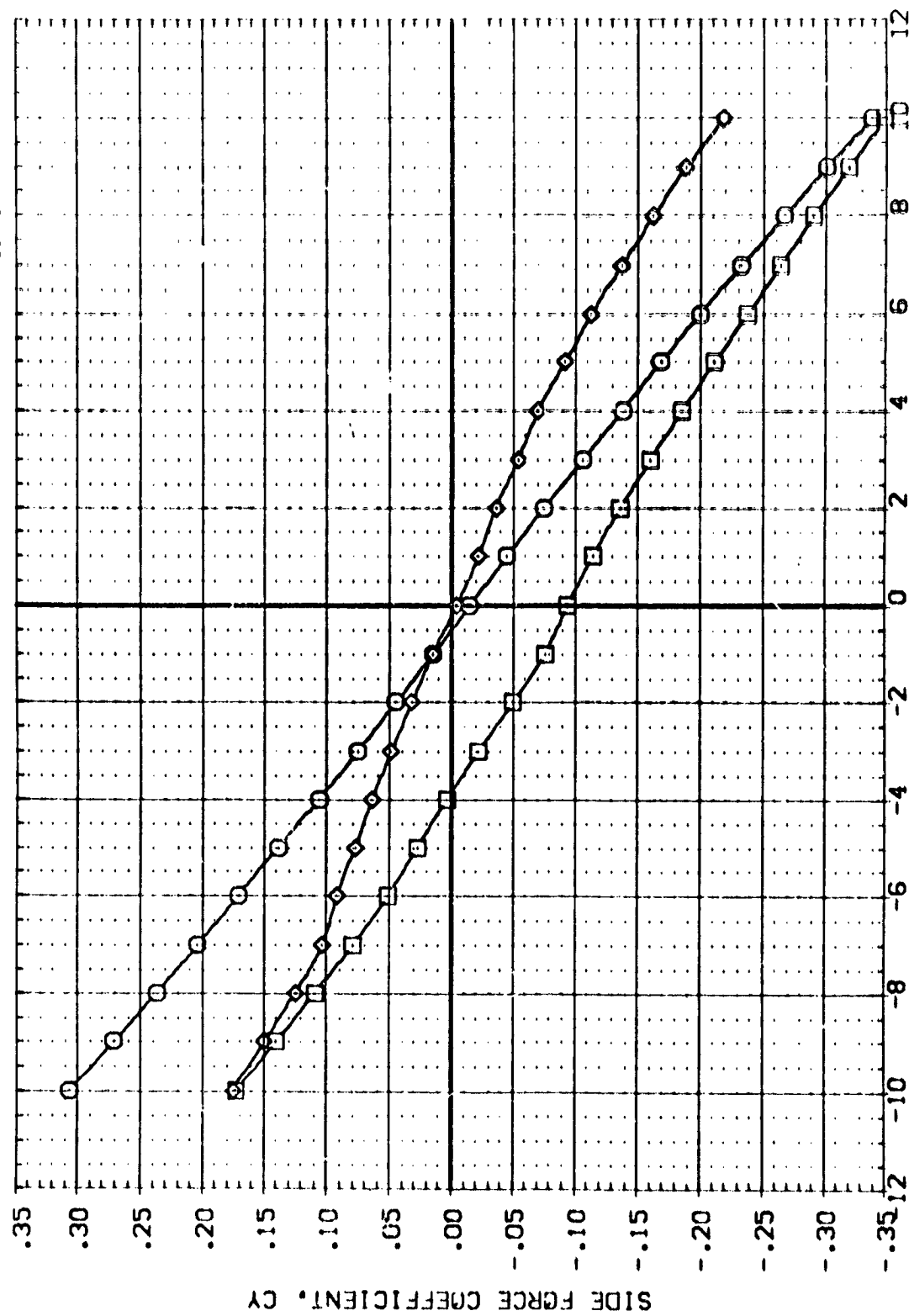
CBL

EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=750)

(A) MACH = 4.50

(RT-002)	AEDC VA-422 (A-57), ISOLATED CRB/ET
(RT-012)	AEDC VA-422 (A-57), CRB/ET V/RIGHT SRB
(RT-037)	AEDC VA-422 (A-57), CRB/ET V/BOTH SRB

SRRPOS	RVL	PT-JET	ALPHA
	1.760		.000
.100	1.760	750.000	.000
1.100	1.760	750.000	.000

[illegible]

SIDESLIP ANGLE, BETA. DEGREES

EFFECT OF SRB ON O/ET CHARACT. (POSITION 1, PT/JET=750)

$$C_{AMACH} = 4.50$$

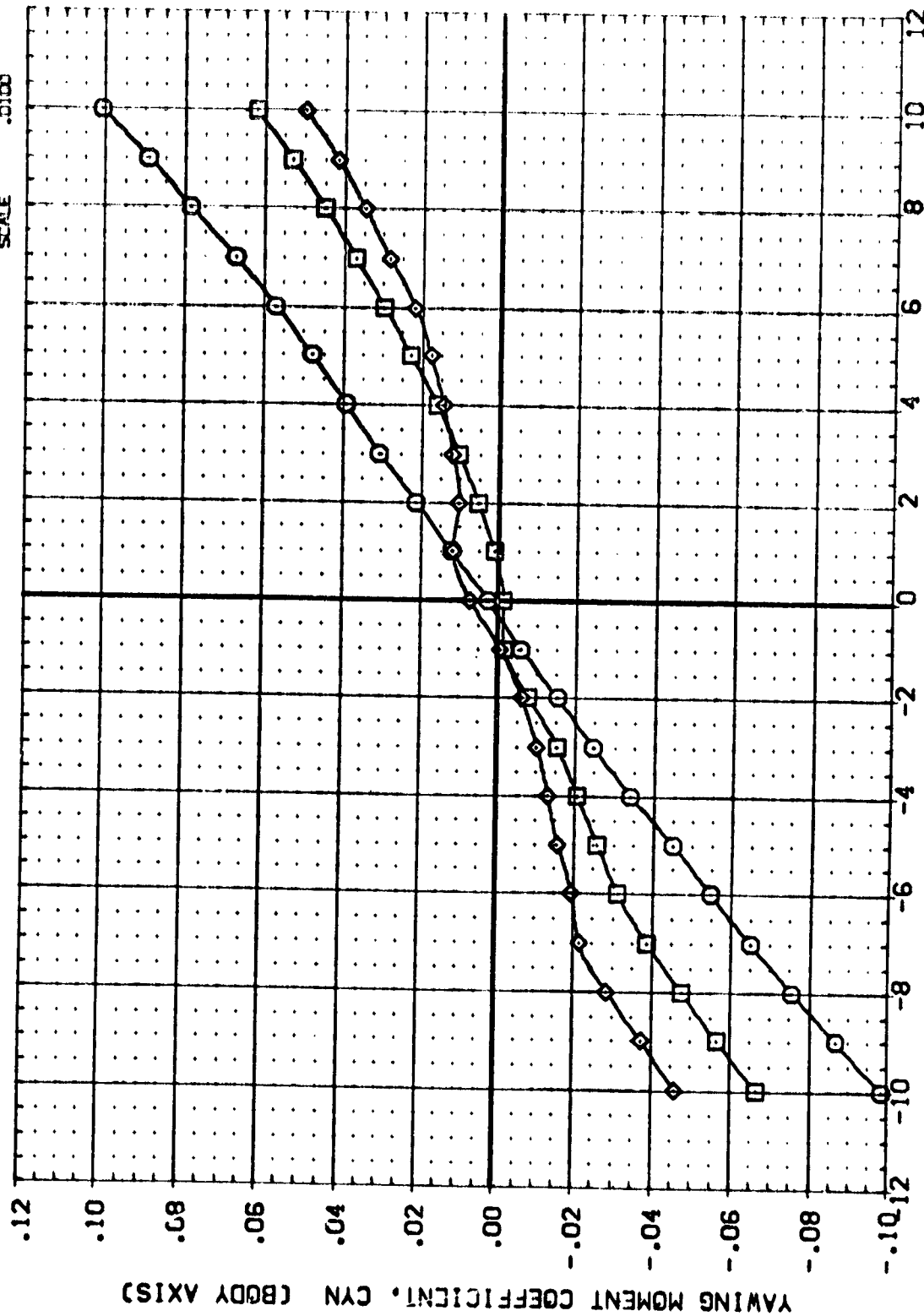
PAGE 129

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTL002) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTL012) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (RTL037) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SP/CS RV/L PT-JET ALPHA REFERENCE POSITION

1.100 1.760 .000 SREF 250.000 SC.FT.
 1.100 1.760 750.000 LREF 1250.000 IN.
 1.100 1.760 750.000 BRREF 1250.000 IN.
 1.100 1.760 750.000 XREF 1250.000 IN.
 1.100 1.760 750.000 YREF 1250.000 IN.
 1.100 1.760 750.000 ZREF 1250.000 IN.
 1.100 1.760 750.000 SCALE 447.0000



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 1, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL

(RTL002)
(RTL012)
(RTL037)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57), ISOLATED ORB/ET
AEDC VA-422(1A-57), ORB/ET W/RIGHT SRB
AEDC VA-422(1A-57), ORB/ET W/BOTH SRB

SRB POS

1.100
1.100

RV/L

1.750
1.750
1.750

PT-JET

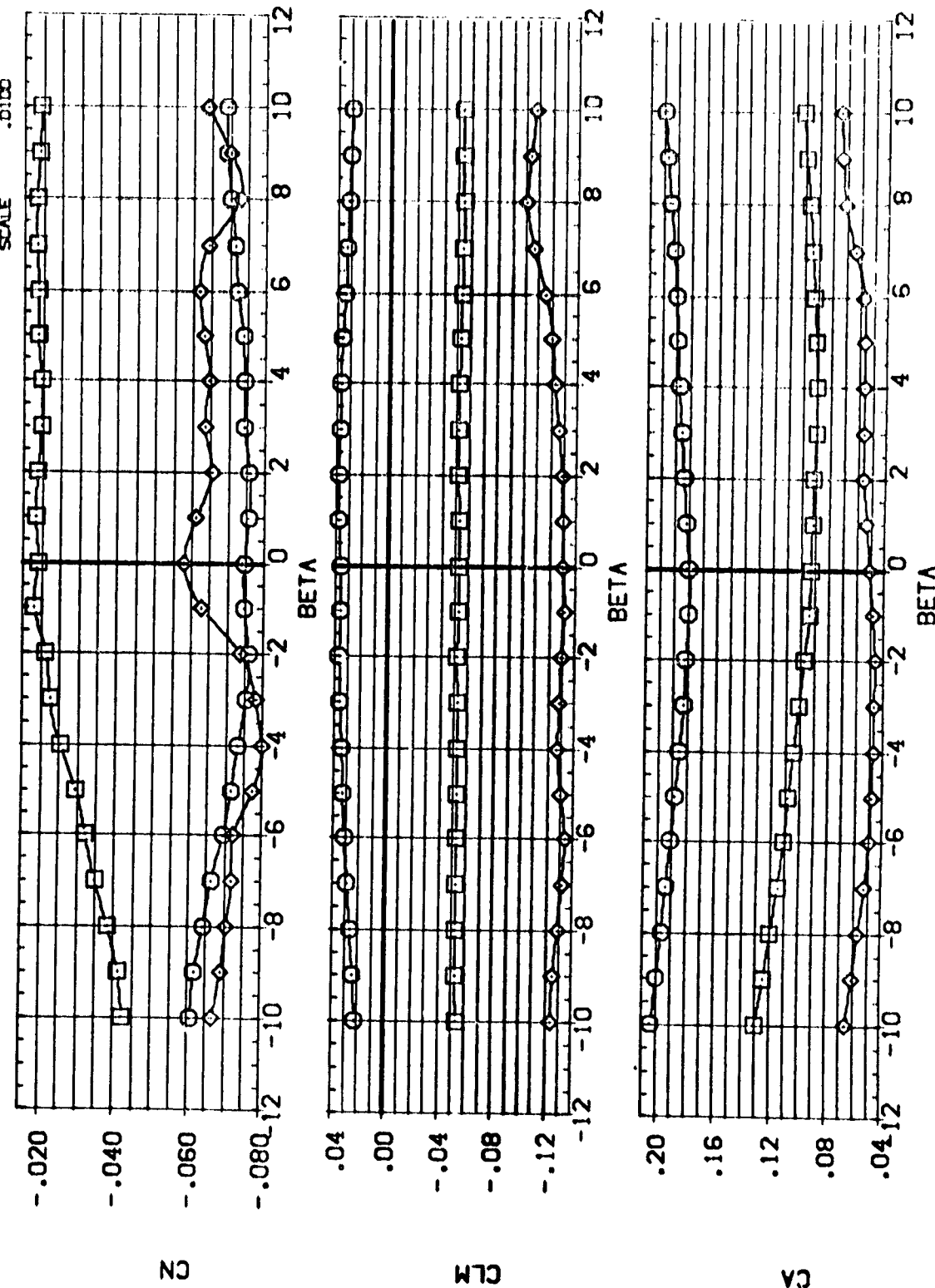
750.000
750.000
750.000

ALPHA

.000
.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 1290.3000 IN.
BREF 1290.3000 IN.
XREF 1052.0000 IN.
YREF 447.0000 IN.
ZREF 447.0000 IN.
SCALE .0100



EFFECT OF SRB ON O/VET CHARACTER. (POSITION 1, PT/JET=750)

CAJ MACH = 4.50

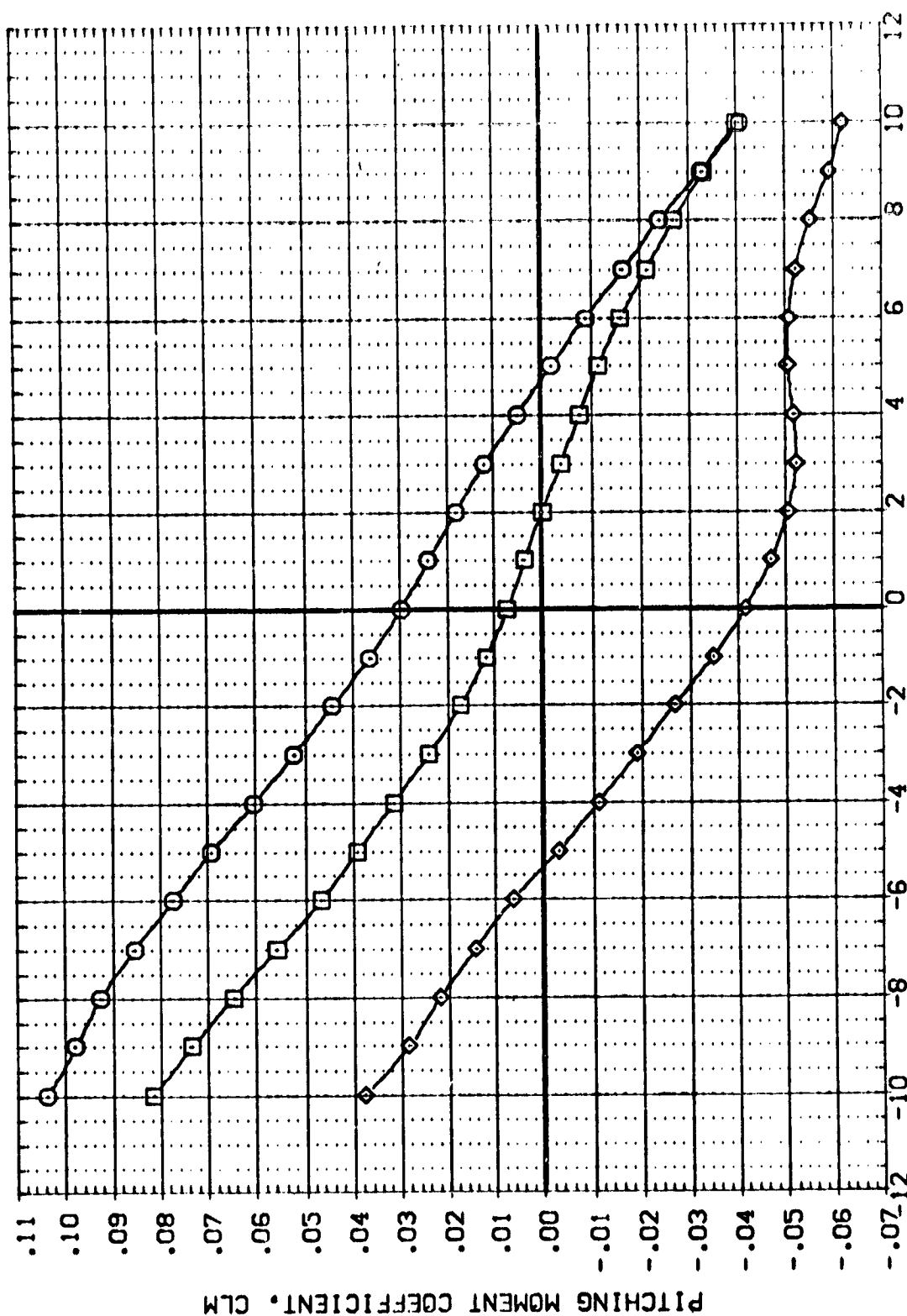
DATA SET SYMBOL: (R1L001) (R1L019) (R1L047)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57): ISOLATED O/RB/ET
 AEDC VA-422(1A-57): O/RB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): O/RB/ET V/BOTH SRB

SRB POS R/VL PT-JET BETA REFERENCE INFORMATION

SRB POS	R/VL	PT-JET	BETA	SREF	2680.0000	50.00
.200	1.760	750.000	.000	LREF	1250.3000	IN.
2.200	1.760	750.000	.000	SREF	1250.3000	IN.
				XMRP	1052.0000	IN.
				YMRP	.0000	IN.
				ZMRP	447.0000	IN.
				SCALE	.0100	IN.



ANGLE OF ATTACK, ALPHA, DEGREES

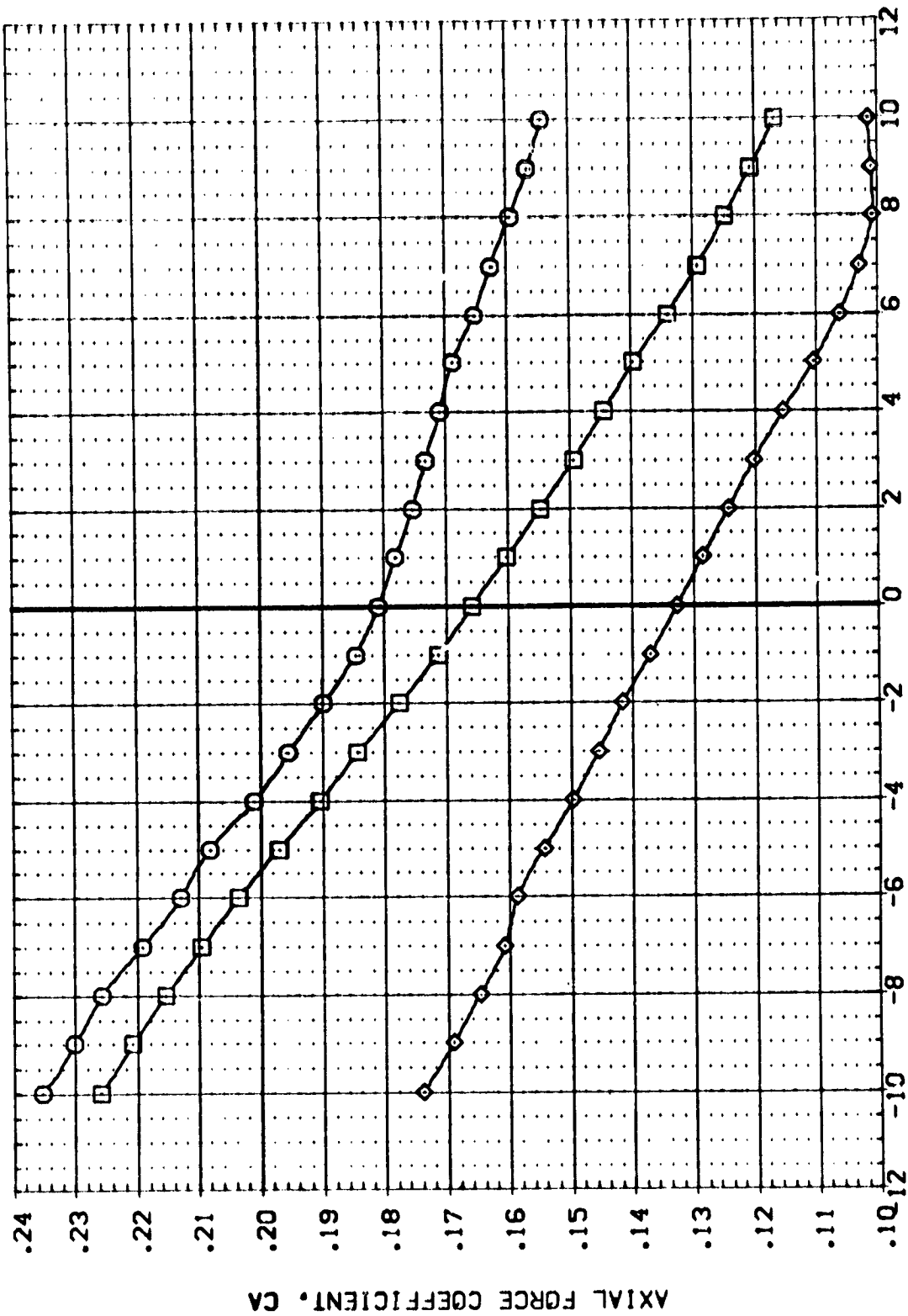
EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(A-57); ISOLATED ORB/ET
 (RTLO19) AEDC VA-422(A-57); ORB/ET V/RIGHT SRB
 (RTLO47) AEDC VA-422(A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA
 .200 1.760 .000
 2.200 1.760 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1280.3000 10.FT.
 BREF 280.3000 10.FT.
 XREF 1052.0000 10.FT.
 YREF 447.0000 10.FT.
 ZREF 447.0000 10.FT.
 SCALE 10.0000

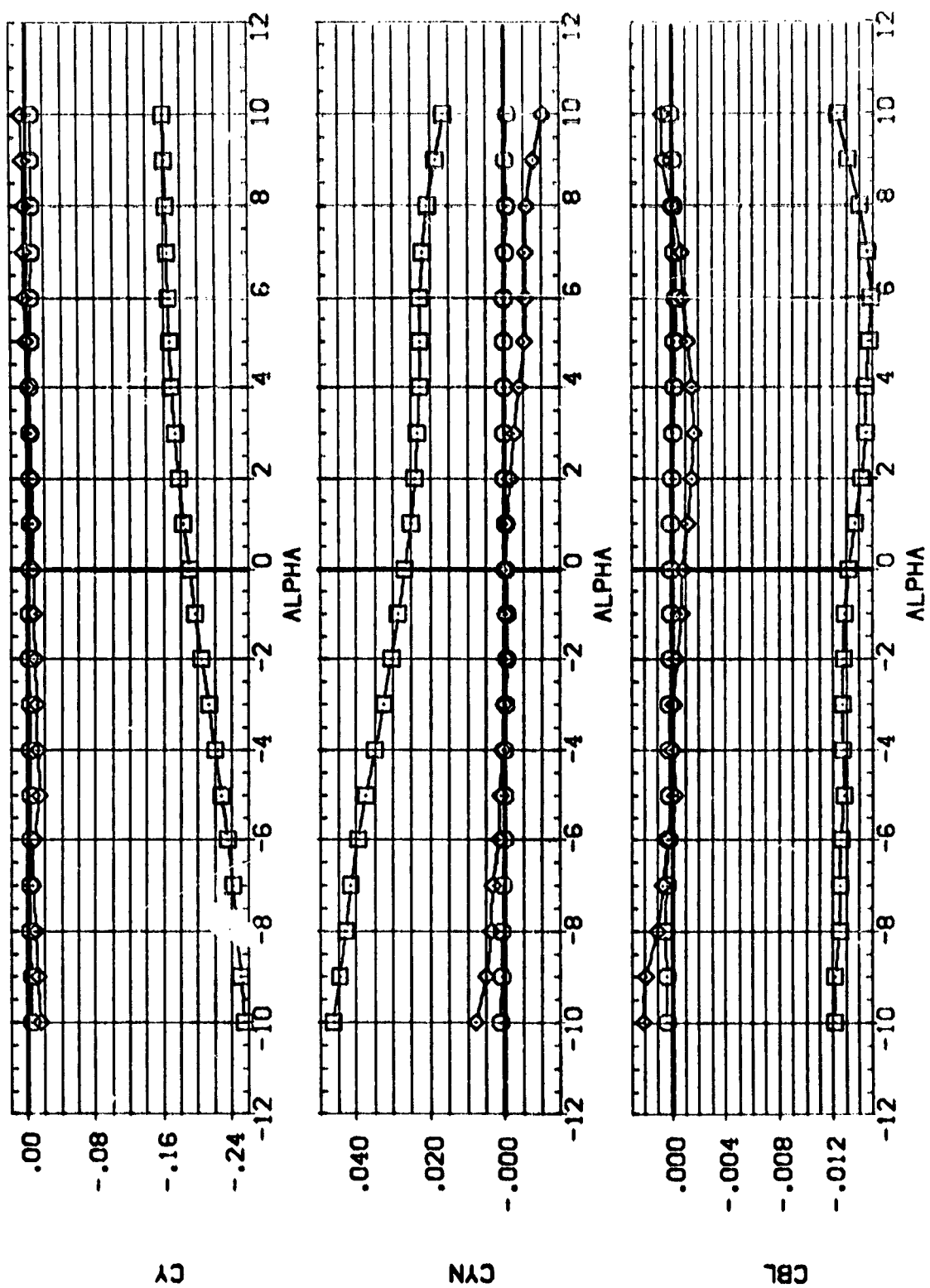


EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(1A-57). ISOLATED ORB/ET SRB
 (RTLO19) AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 (RTLO47) AEDC VA-422(1A-57). ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 200 1.760 .000 SREF 2690.0000 SQ.FT.
 2.200 1.760 .000 LREF 1250.3000 IN.
 XREF 1250.3000 IN. XT
 YREF 1052.0000 IN. YT
 ZREF .0000 IN. ZT
 SCALE 447.0000



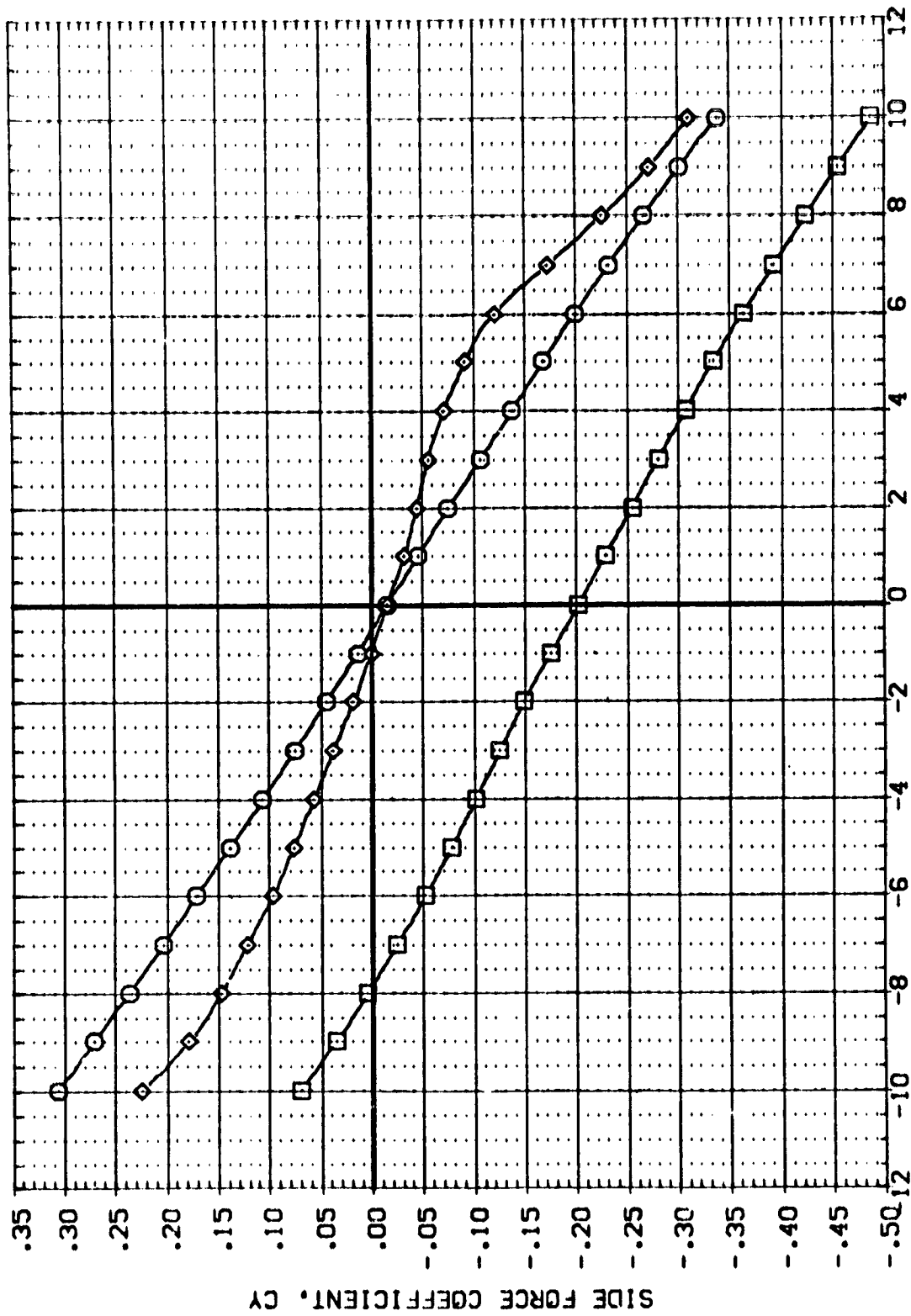
EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(A-57), ISOLATED OVB/ET
 (RTLO20) AEDC VA-422(A-57), CRB/ET V/RIGHT SRB
 (RTLO48) AEDC VA-422(A-57), CRB/ET V/BOTH SRB

SRBPOS RVL PT-JET ALPHA
 .200 1.760 750.000 .000
 2.200 1.760 750.000 .000

REFERENCE INFORMATION
 SREF 2680.000 SO.FT.
 LREF 120.000 IN.
 BREF 120.000 IN.
 XREF 1052.000 IN.
 YREF 0.000 IN.
 ZREF 447.000 IN.
 SCALE 0.100



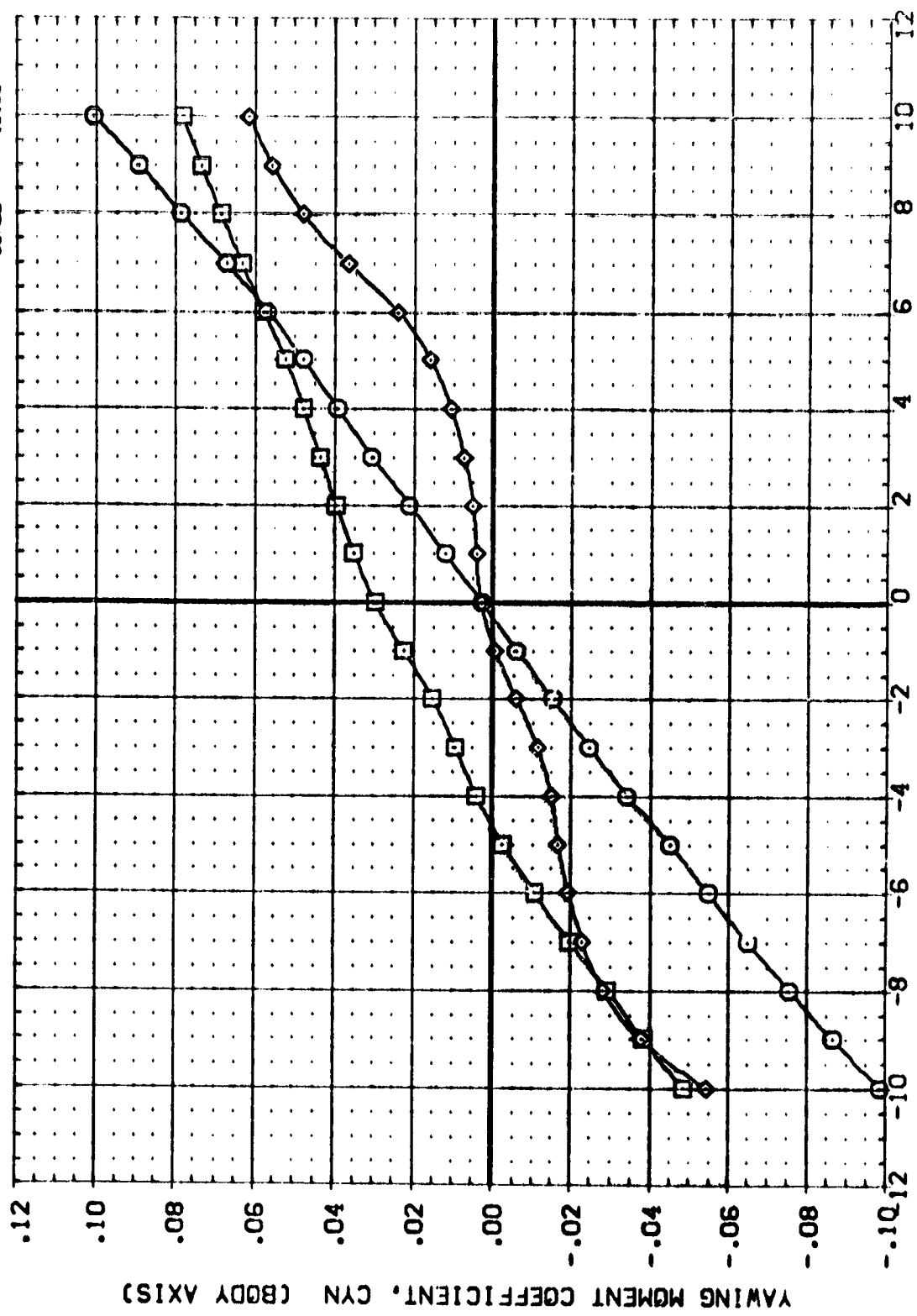
SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SRB ON O/ET CHARACTERISTICS. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL: \square AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTLO02) \diamond AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB
 (RTLO04) \diamond AEDC VA-422(1A-57); ORB/ET W/BOTH SRB

SRBPOS RVA PT-JY ALPHA REFERENCE INFORMATION SQ.FT.
 .200 1.760 750.000 .000 SRREF 2690.0000 IN.
 2.200 1.760 750.000 .000 LRREF 1290.3000 IN.
 X-GRP 1290.3000 IN. XT
 Y-GRP 1052.0000 IN. YT
 Z-GRP 447.0000 IN. ZT
 SCALE 0.0100



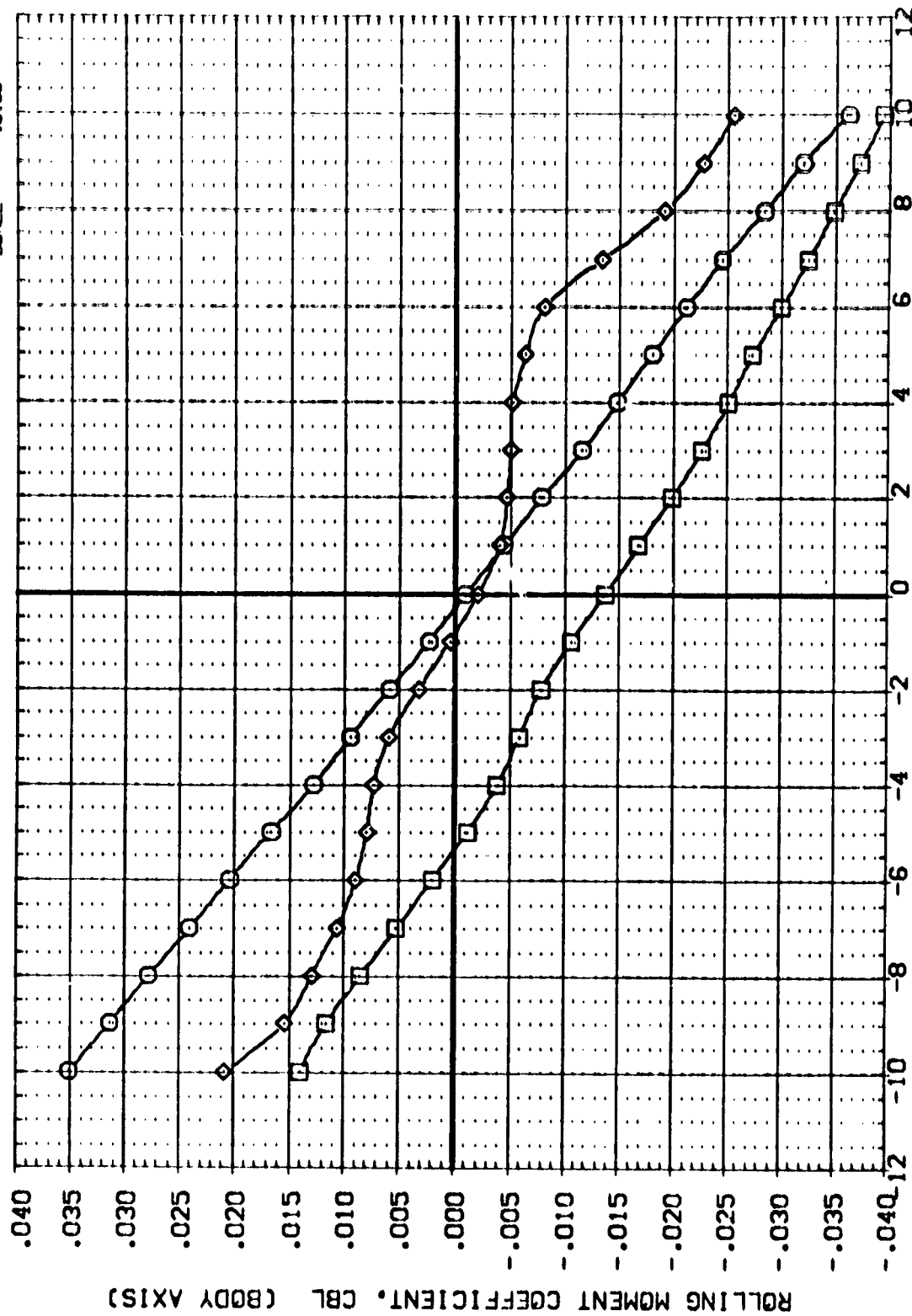
EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R1002) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (R1002) AEDC VA-422(1A-57); ORB/ET W/RIGHT SRB
 (R10048) AEDC VA-422(1A-57); ORB/ET W/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
 .200 1.760 750.000 .000
 2.200 1.760 750.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 IN.
 BREF 269.3000 IN.
 XREF 129.3000 IN.
 YREF 269.3000 IN.
 ZREF 447.0000 IN.
 SCALE .0100



SIDELIP ANGLE, BETA, DEGREES
 EFFECT OF SRB ON O/ET CHARACTER. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

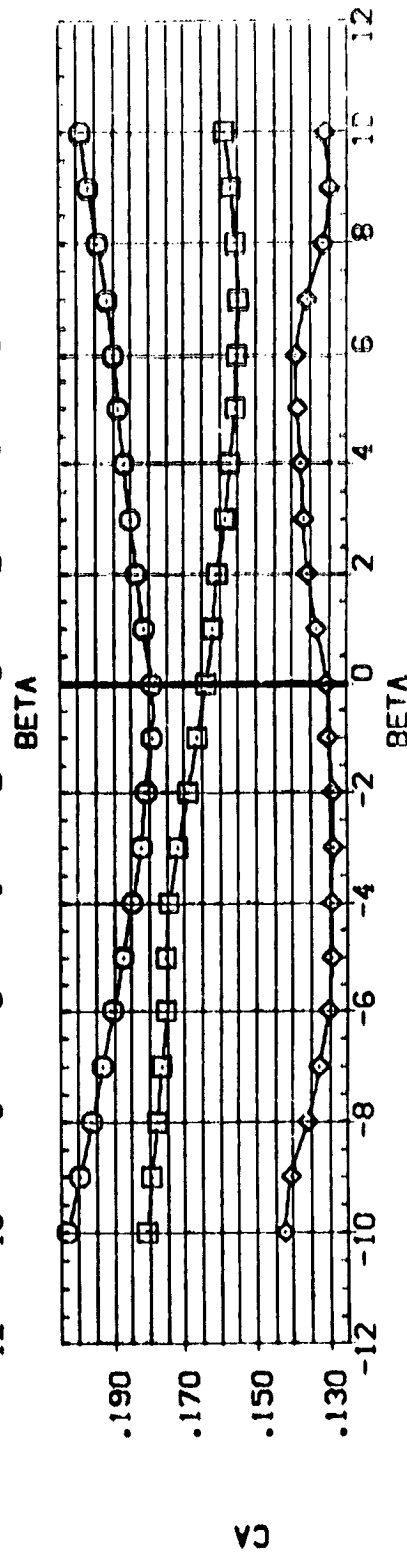
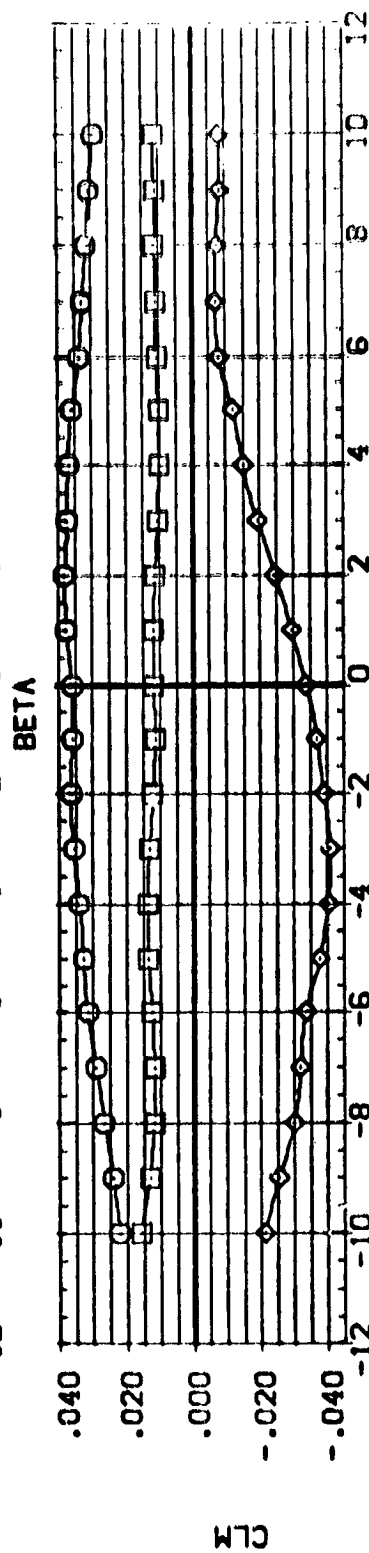
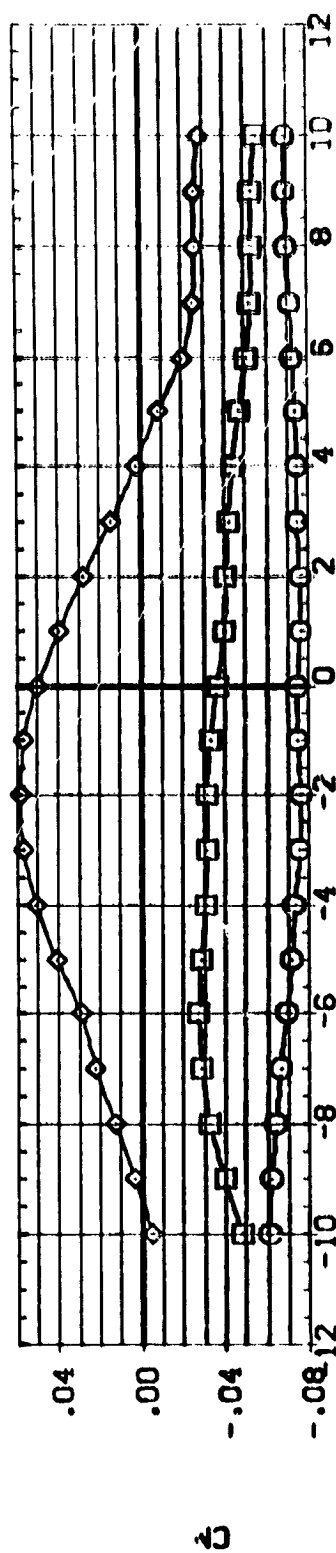
DATA SET SYMBOL
(RTLO021)
(RTLO020)
(RTLO48)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57): ISOLATED ORB/ET
AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRSPOS RVL PT-JET ALPHA
.200 1.760 750.000 .000
2.200 1.760 750.000 .000

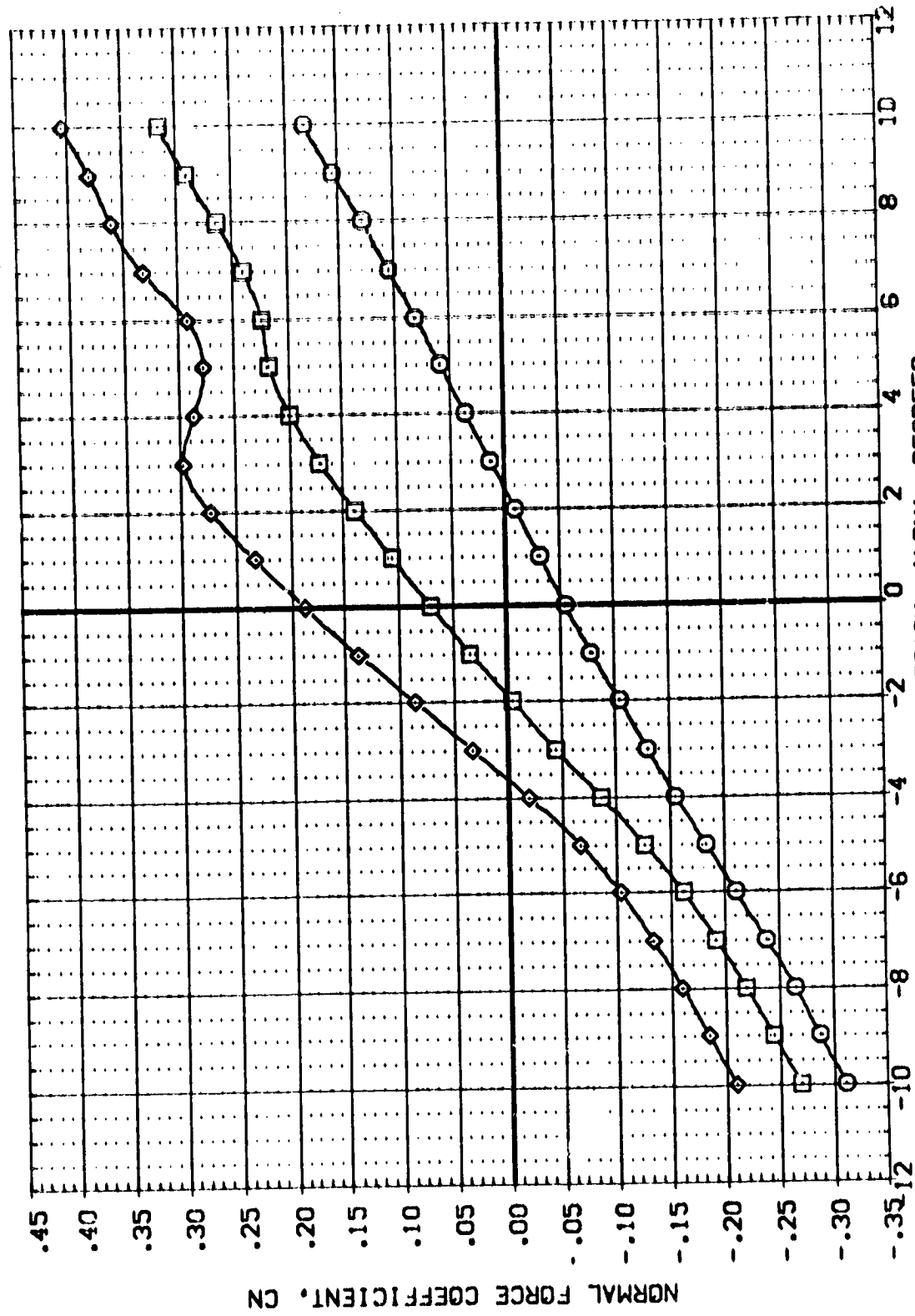
REFERENCE INFORMATION
SREF 2590.000 SO.ET.
REF 1.760 3000
SREF 1.760 3000
XREF 1.760 3000
YREF 1.760 3000
ZREF 1.760 3000
SCALE 447.000



EFFECT OF SRB ON O/ET CHARACT. (POSITION 2, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RTLOC1)	AEDC VA-422[[A-57]: ISOLATED ORB/ET
(RTLOC2)	AEDC VA-422[[A-57]: ORB/ET W/RIGHT SRB
(RTLOC3)	AEDC VA-422[[A-57]: ORB/ET W/BOTH SRB



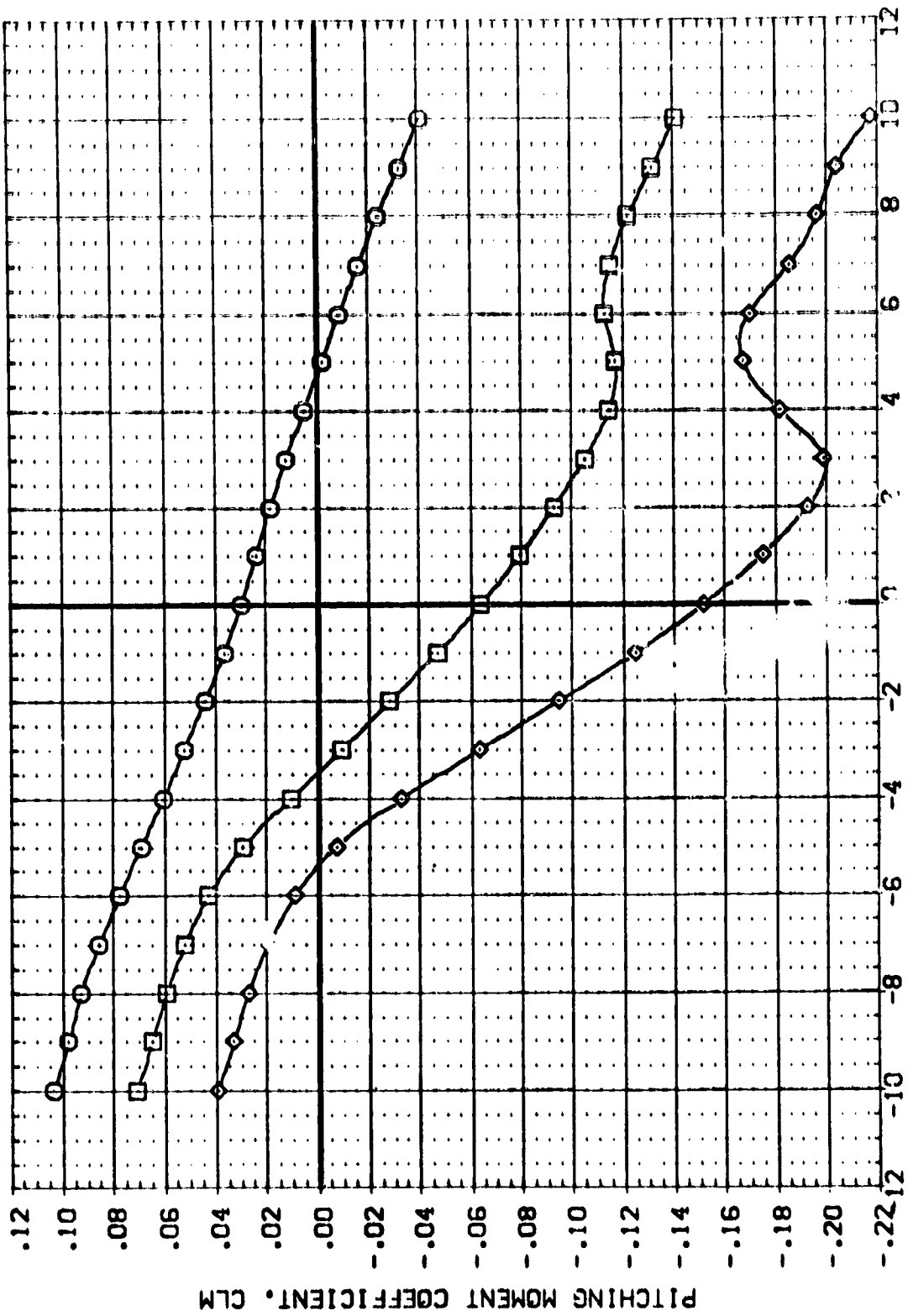
EFFECT OF SRB ON O/E/T CHARACTER. (POSITION 3, PT/JET=750)

$$[A]_{\text{MACH}} = 4.50$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTL001) AEDC VA-422(1A-57): ISOLATED ORB/ET
 (RTL027) AEDC VA-422(1A-57): ORB/ET V/RIGAT SRB
 (RTL058) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET BETA
 .300 1.750 750.000 .000
 3.300 1.750 750.000 .000

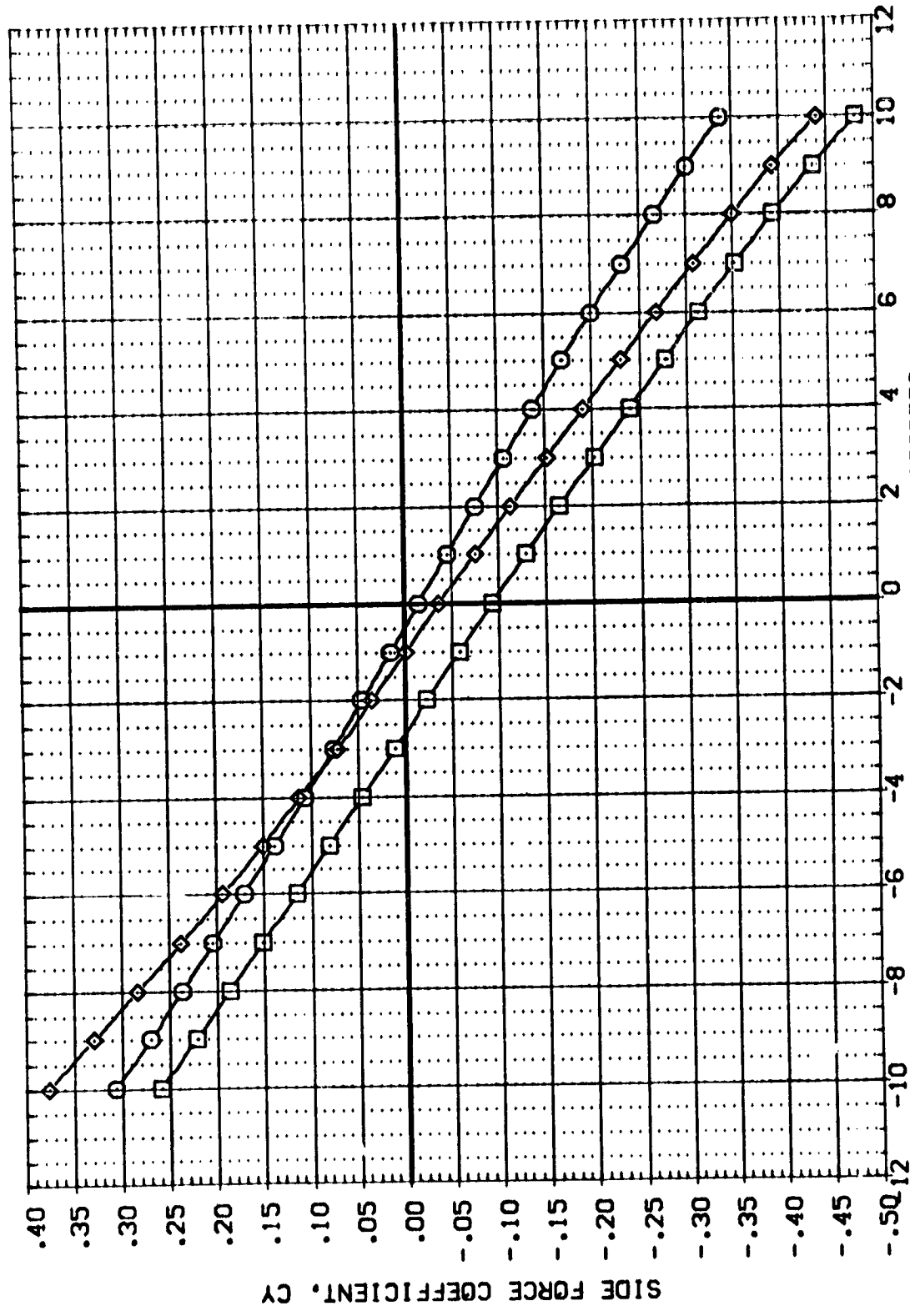
REFERENCE INFORMATION
 SR REF 2690.0000
 LR REF 1250.0000
 PR REF 1250.0000
 Y REF 1052.0000
 Z REF 447.0000
 SCALE .0100



EFFECT OF SRB ON O/ET CHARACT. (POSITION 1: PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(RTLO02)	□	AEDC VA-422(1A-57)	ISOLATED SRB/ET	300	1.760	750,000	.000	SREF	2690.0000	50.00			
(RTLO28)	○	AEDC VA-422(1A-57)	CRB/ET V/RIGHT SRB	300	1.760	750,000	.000	LREF	2690.0000	50.00			
(RTLO59)	◇	AEDC VA-422(1A-57)	CRB/ET V/BOTH SRB	300	1.760	750,000	.000	SREF	2690.0000	50.00			
				3.300				SREF	2690.0000	50.00			
								XREF	2690.0000	50.00			
								YREF	2690.0000	50.00			
								ZREF	2690.0000	50.00			
								SCALE	447.0000	0.000			



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO02)
 (RTLO28)
 (RTLO55)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57): ISOLATED SRB/ET
 AEDC VA-422(1A-57): SRB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): SRB/ET V/BOTH SRB

SRSPOS: .300
 3.300

RN/L: 1.760
 1.760
 1.760

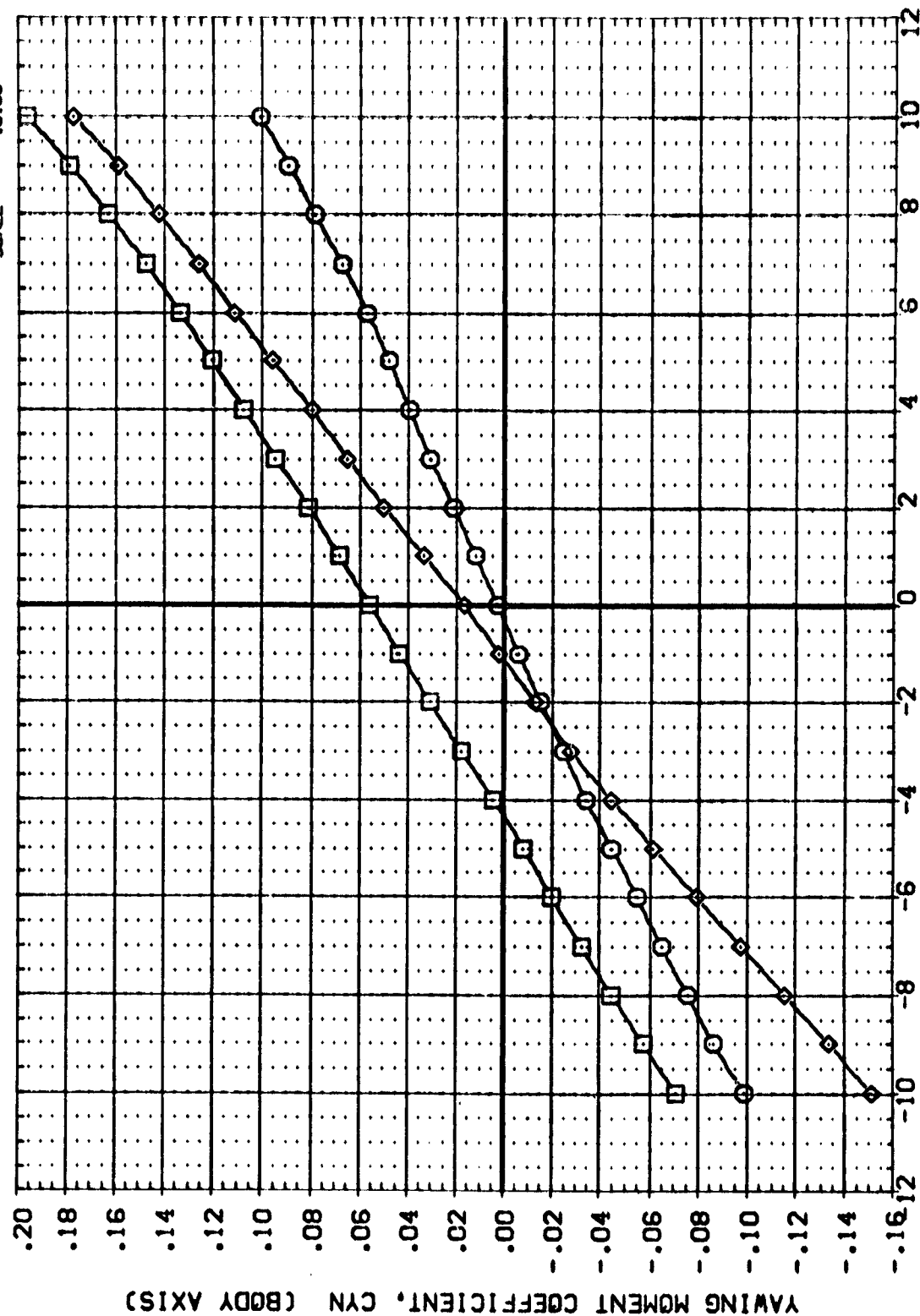
PT-JET: 750.000
 750.000
 750.000

ALPHA: .000
 .000
 .000

REFERENCE INFORMATION

SREF: 2650.0000
 LREF: 1250.3000
 BREF: 1250.3000
 XREF: 1252.0000
 YREF: .0000
 ZREF: 447.0000
 SCALE: .0100

SO.FT.: IN.
 IN.
 IN.
 IN.
 IN.
 IN.
 IN.



SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO02) (RTLO28) (RTLO59)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ISOLATED ORB/ET AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

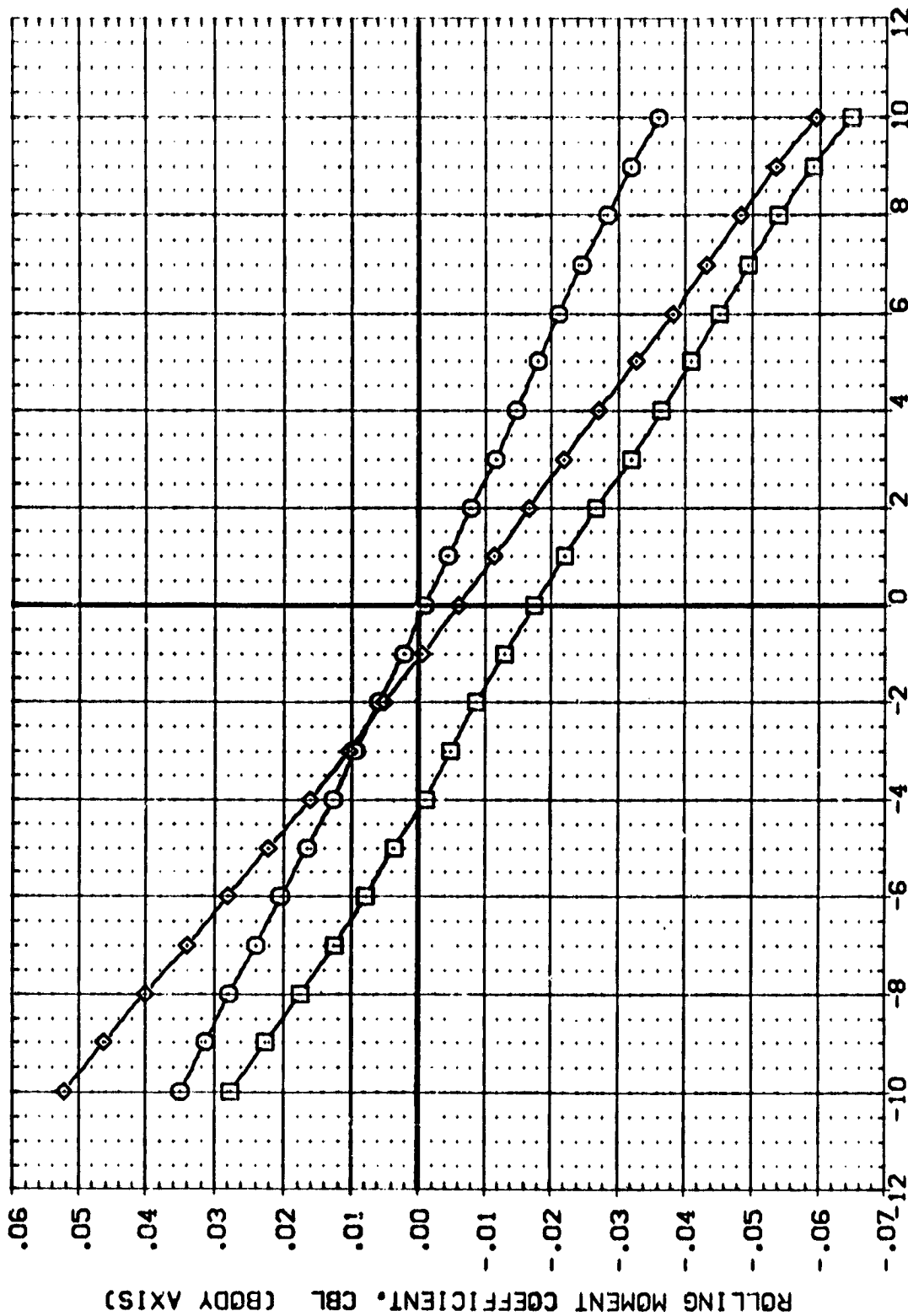
SRBPOS: .300 3.300

RN/L: 1.760 1.760 1.760

PT-JET: 750.000 750.000 750.000

ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF 2650.0000 SD.FT. 1250.3000 LREF 1250.3000 BREF 1250.3000 XMRP 1052.0000 YMRP 0.0000 ZMRP 447.0000 SCALE 0.0100



EFFECT OF SRB ON O/VET CHARACTER. (POSITION 3, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL: (RTLO02) (RTLO28) (RTLO53)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ISOLATED ORB/ET; AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB; AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SREPOS: 300, 300, 300

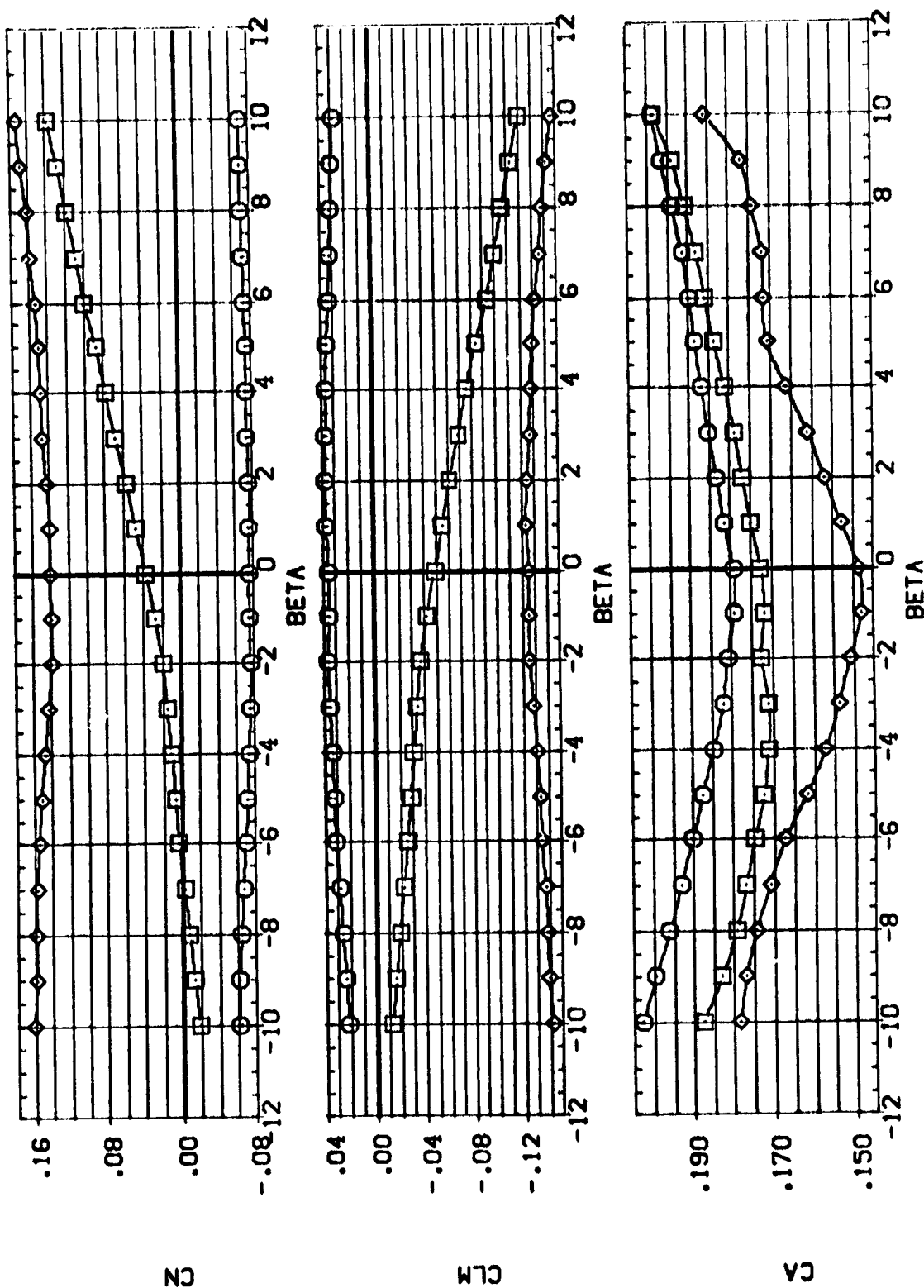
RN/L: 1.760, 1.760, 1.760

PT-JET: 750.000, 750.000, 750.000

ALPHA: .000, .000, .000

REFERENCE INFORMATION: SREF: 2550.0000, 2550.0000, 2550.0000; LREF: 1250.0000, 1250.0000, 1250.0000; BREF: 1250.0000, 1250.0000, 1250.0000; XREF: 1052.0000, 1052.0000, 1052.0000; YREF: .0000, .0000, .0000; ZREF: 447.0000, 447.0000, 447.0000; SCALE: .0100

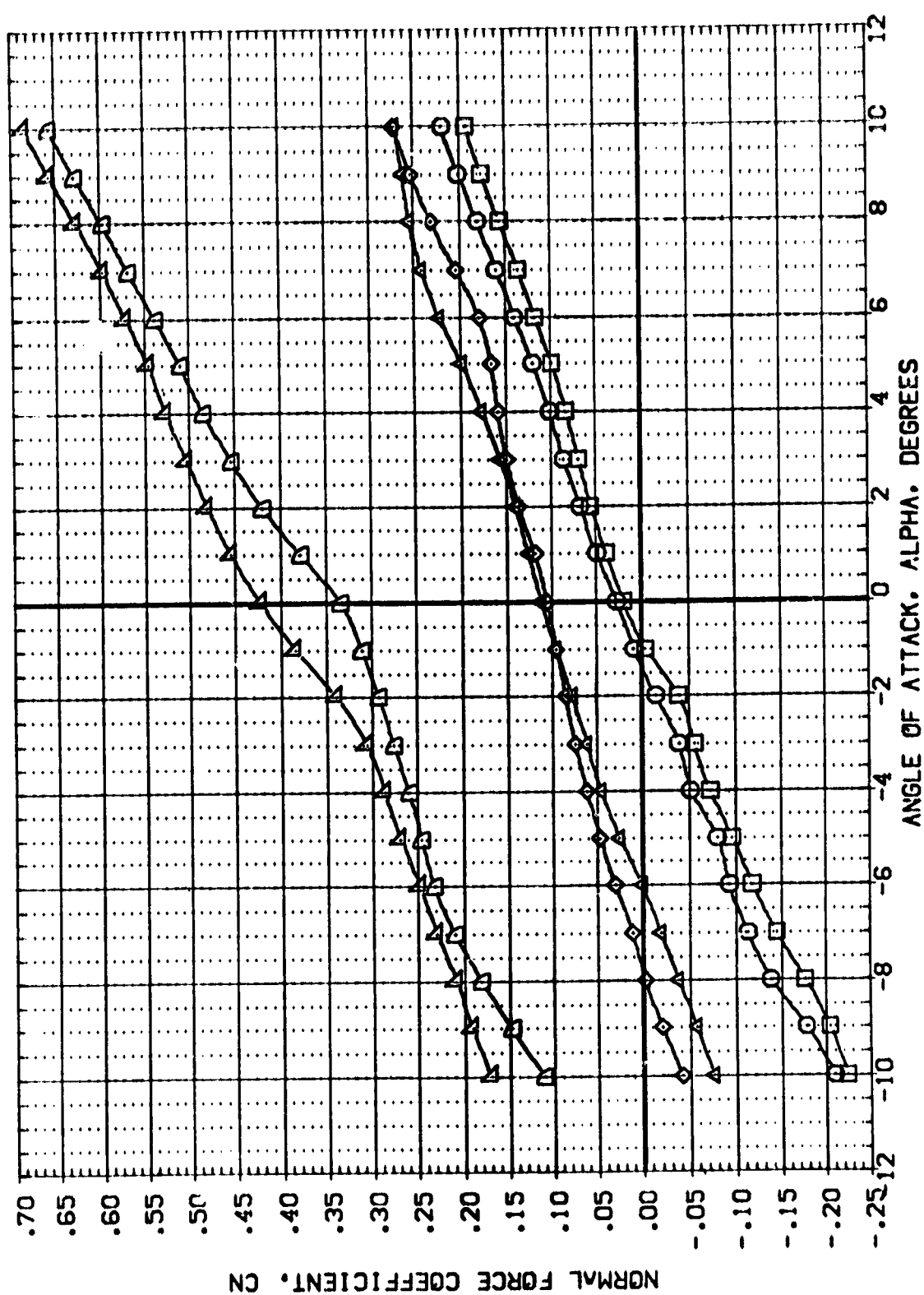
SO.FT.: IN, IN, IN; XT, YT, ZT



EFFECT OF SRB ON O/ET CHARACTER. (POSITION 3, PT/JET=750)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SREPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(RTLO32)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	1.100	1.400	1500.000	.000	SREF 2690.0000
(RTLO38)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	1.100	1.760	1500.000	.000	LREF 1290.0000
(RTLO43)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	2.200	1.400	1500.000	.000	BREF 1290.0000
(RTLO49)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	2.200	1.760	1500.000	.000	XREF 1052.0000
(RTLO54)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	3.300	1.400	1500.000	.000	YREF 1052.0000
(RTLO60)	AEDC VA-422(A-57), ORB/ET V/BOTH SRB	3.300	1.760	1500.000	.000	ZREF 447.0000
						SCALE .0100

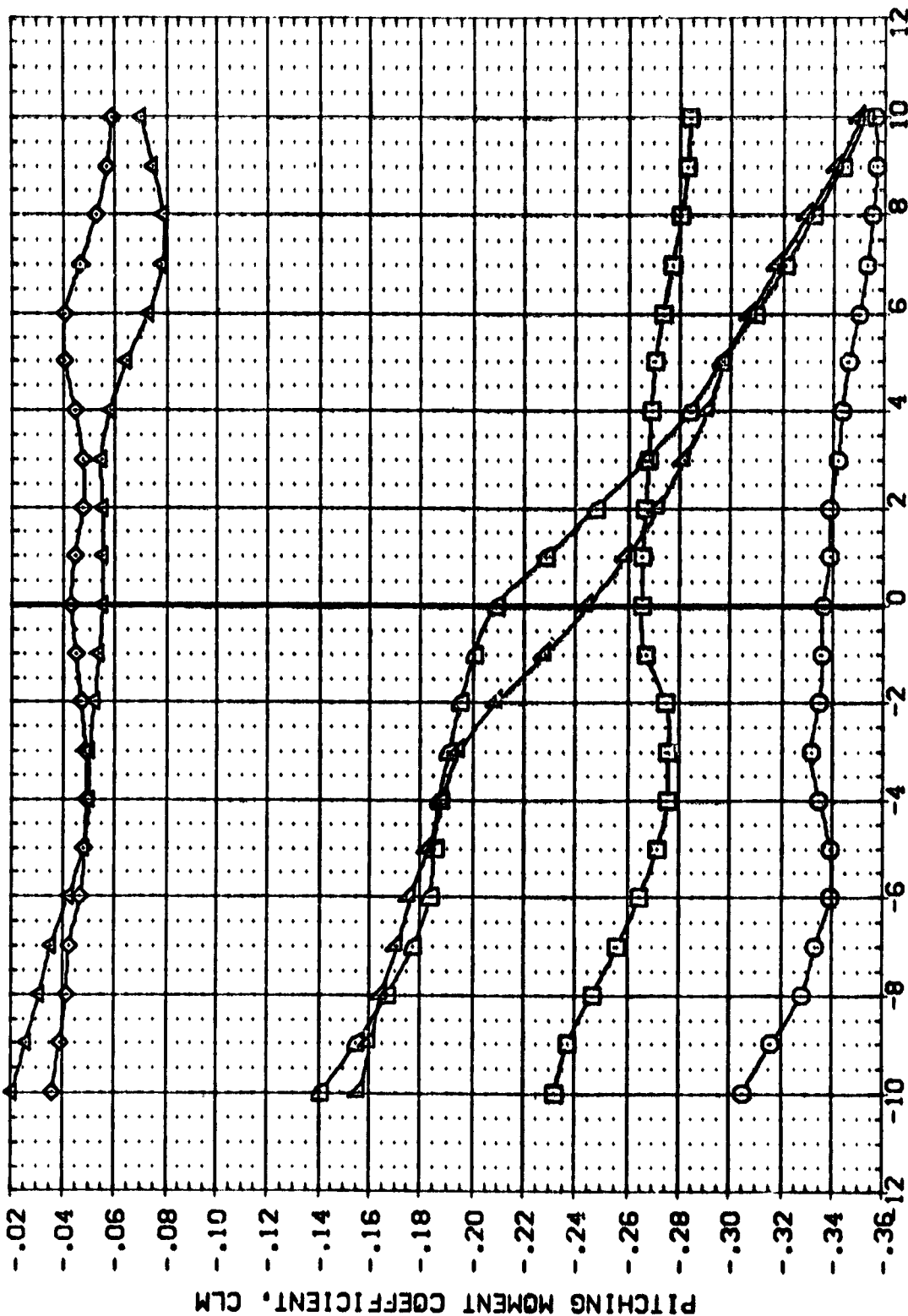


EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SUBPOS	RVL	PT-JET	BETA	REFERENCE INFORMATION
(RTL032)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	1.100	1.400	1500.000	.000	SREF 2580.0000 50.57.
(RTL038)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	1.100	1.750	1500.000	.000	LREF 1290.3000 IN.
(RTL043)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	2.200	1.400	1500.000	.000	EREF 1290.3000 IN.
(RTL049)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	2.200	1.750	1500.000	.000	VRFP 1052.0000 IN. XT
(RTL054)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	3.300	1.400	1500.000	.000	VRFP 447.0000 IN. YT
(RTL060)	AEDC VA-422(1A-57): CRB/ET V/80TH SRB	3.300	1.750	1500.000	.000	VRFP 447.0000 IN. ZT

SCALE .0100

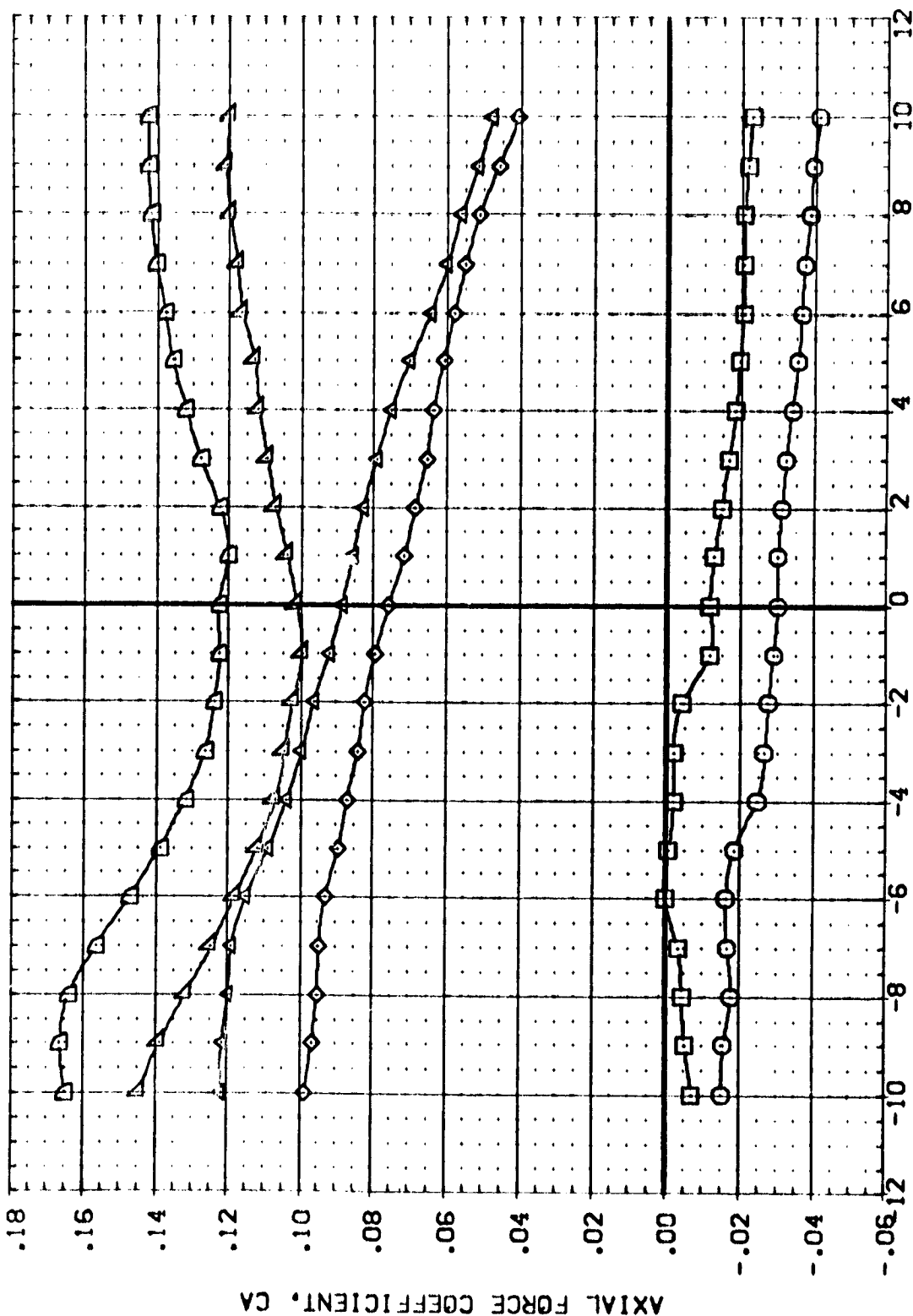


ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
[PT-032]	AEDC VA-422(A-57). CRB/ET V/80TH SRB	1.100	1.400	1500.000	.000	SRREF 2650.0000 50.00
[PT-038]	AEDC VA-422(A-57). CRB/ET V/80TH SRB	1.100	1.750	500.000	.000	SRREF 2650.0000 50.00
[PT-043]	AEDC VA-422(A-57). CRB/ET V/80TH SRB	2.200	.750	500.000	.000	SRREF 2650.0000 50.00
[PT-054]	AEDC VA-422(A-57). CRB/ET V/80TH SRB	3.300	.400	500.000	.000	SRREF 2650.0000 50.00
[PT-050]	AEDC VA-422(A-57). CRB/ET V/80TH SRB	3.300	.750	500.000	.000	SRREF 2650.0000 50.00
						SCALE 447.0000 50.00



ANGLE OF ATTACK, ALPHA, DEGREES

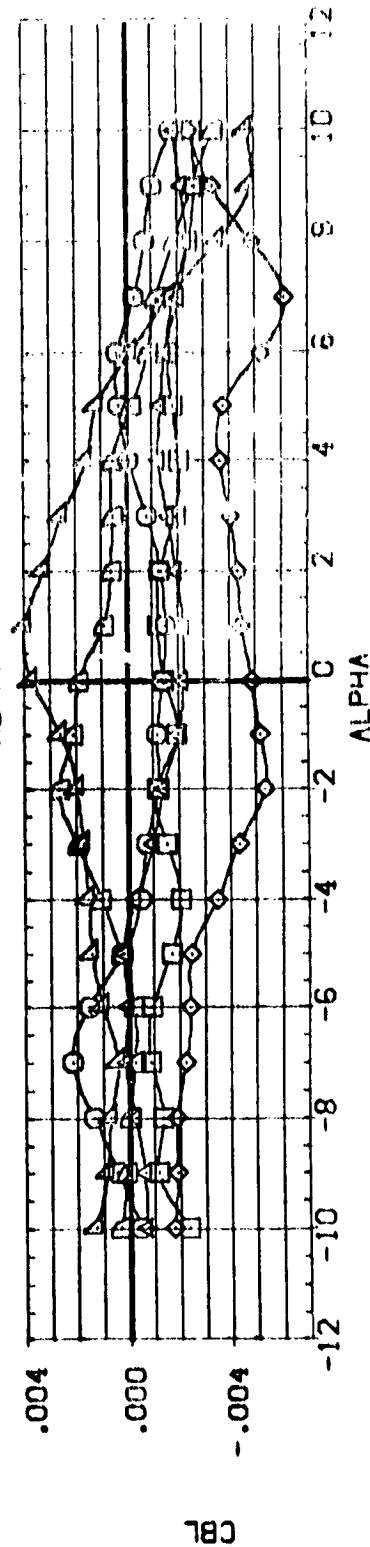
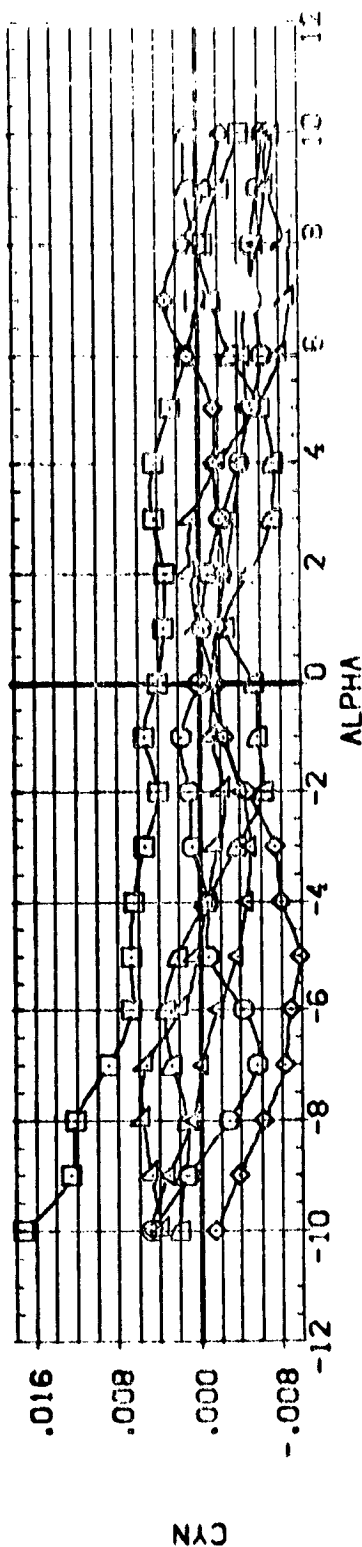
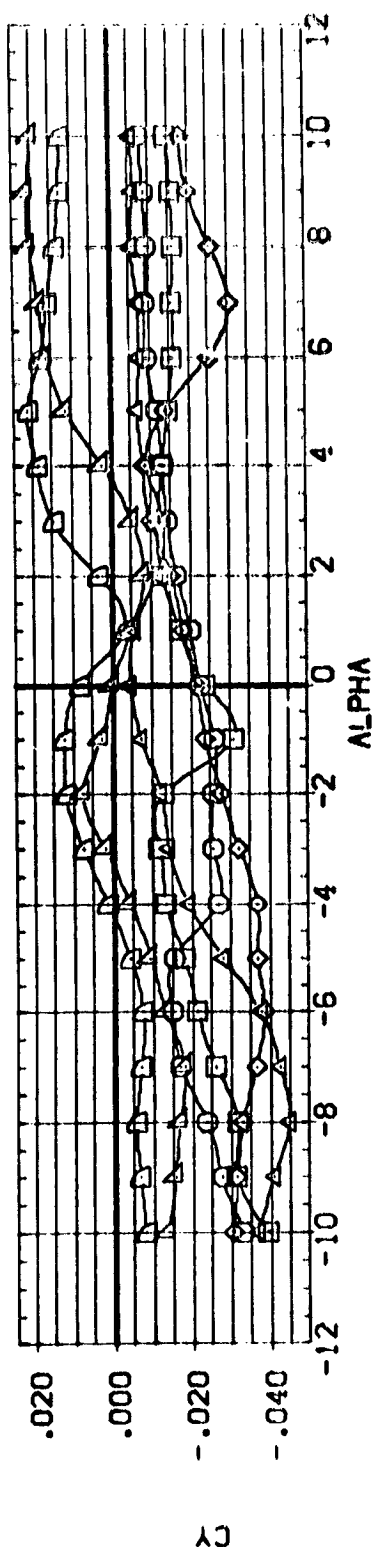
EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(MACH = 4.50)

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRBPGS RVN/L PT-JET BETA REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPGS	RVN/L	PT-JET	BETA	REFERENCE INFORMATION
(RTLO32)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	1.100	1.400	1500.000	.000	7530.000
(RTLO33)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	1.100	1.750	1500.000	.000	7530.000
(RTLO43)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	2.200	1.400	1500.000	.000	7530.000
(RTLO49)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	2.200	1.750	1500.000	.000	7530.000
(RTLO54)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	3.300	1.400	1500.000	.000	7530.000
(RTLO59)	AEDC VA-422(A-57), CRB/ET V/BOTH SRB	3.300	1.750	1500.000	.000	7530.000

SCALE 447.0000



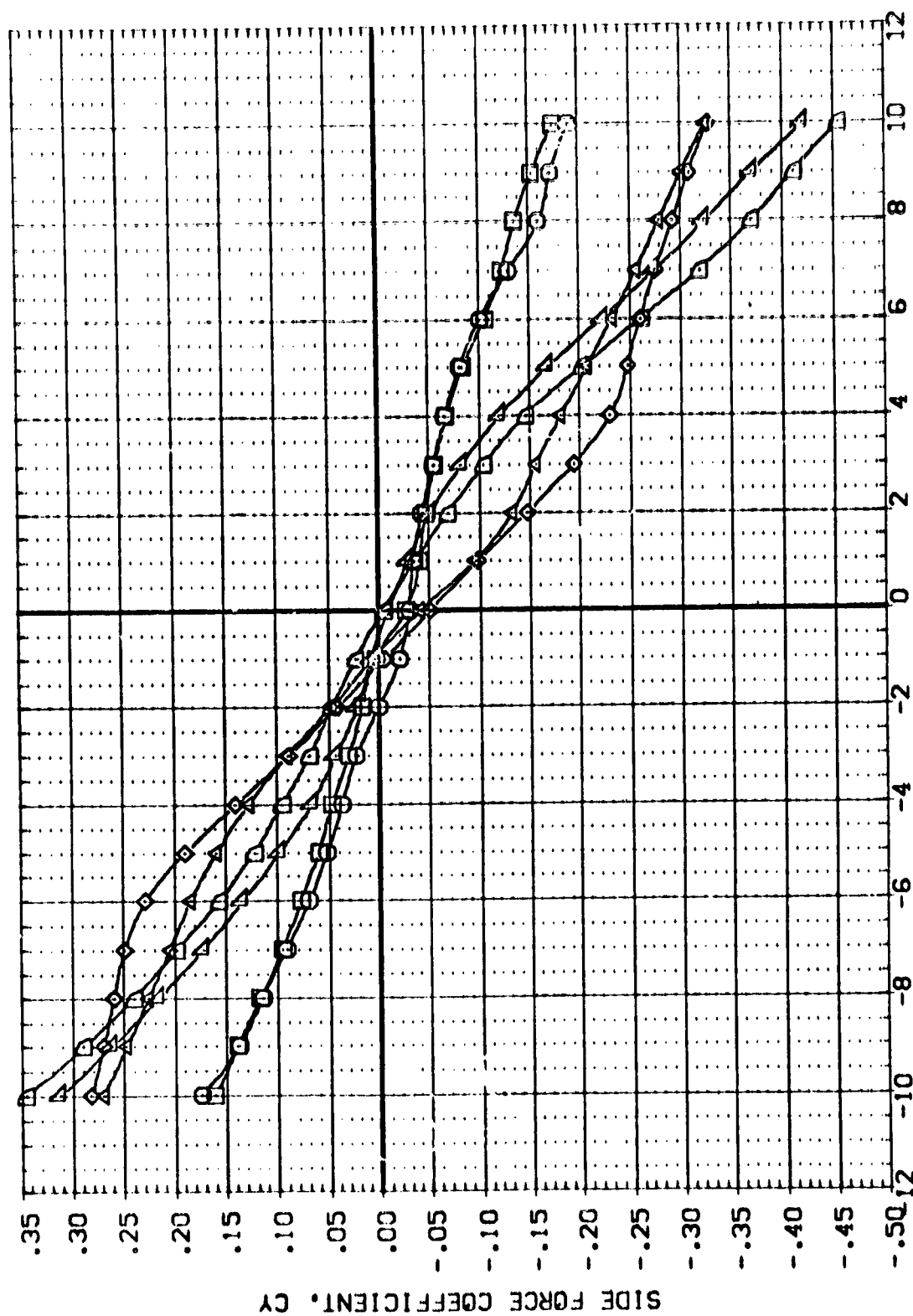
EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRPOS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
BT-033	AEDC VA-422(A-57). CR3/ET V/80TH SR8	1.100	1.400	1500.000	.000	2590.0000 50. FT.
BT-038	AEDC VA-422(A-57). CR3/ET V/80TH SR8	1.100	1.750	1500.000	.000	2590.0000 50. FT.
BT-044	AEDC VA-422(A-57). CR3/ET V/80TH SR8	2.200	1.400	1500.000	.000	2590.0000 50. FT.
BT-050	AEDC VA-422(A-57). CR3/ET V/80TH SR8	2.200	1.750	1500.000	.000	2590.0000 50. FT.
BT-055	AEDC VA-422(A-57). CR3/ET V/80TH SR8	3.300	1.400	1500.000	.000	2590.0000 50. FT.
BT-061	AEDC VA-422(A-57). CR3/ET V/80TH SR8	3.300	1.750	1500.000	.000	2590.0000 50. FT.

SCALE

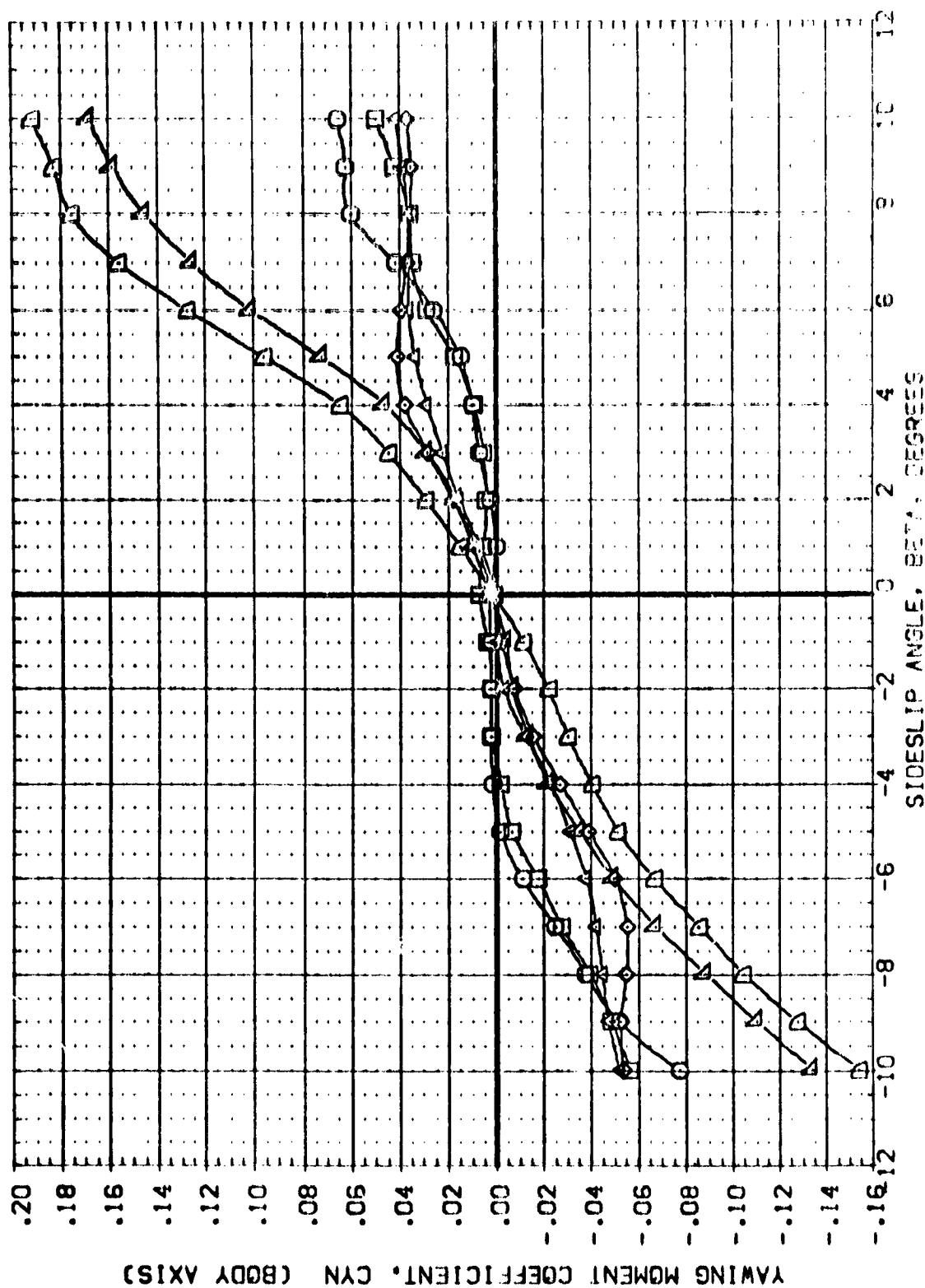


EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(A)MACH = 4.50

[illegible]

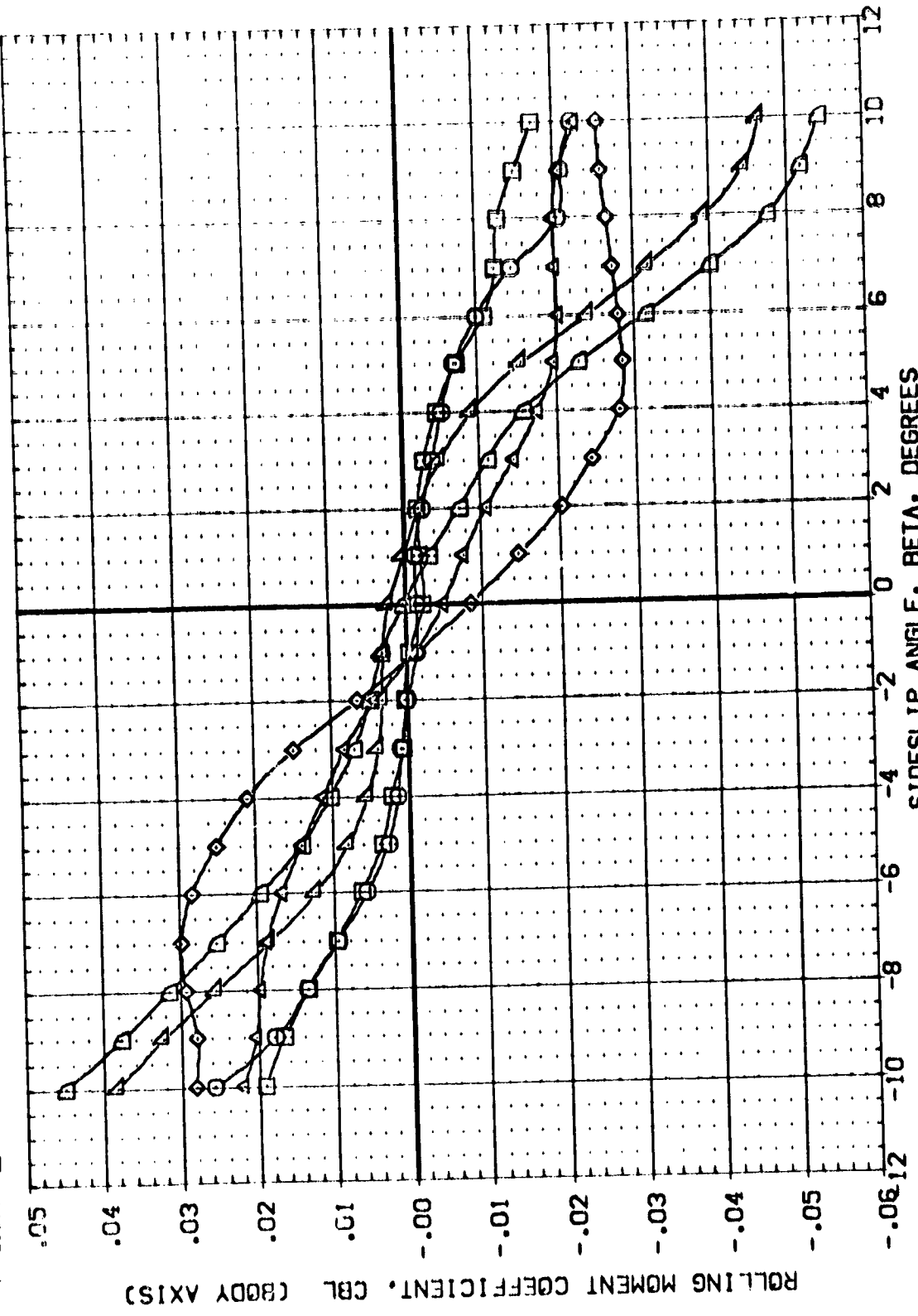
SRPOS	RWL	PI-JET	ALPHA	REFERENCE INFORMATION	SO.FT.
1.100	1.470	500.000	00	500	000
1.100	1.760	500.000	00	500	000
2.200	1.760	500.000	00	500	000
3.300	1.760	500.000	00	500	000
3.300	1.760	500.000	00	500	000
				447	000



EFFECT OF REYNOLDS NUMBER ON C/ET CHARACTERISTICS

$$= 4.50$$

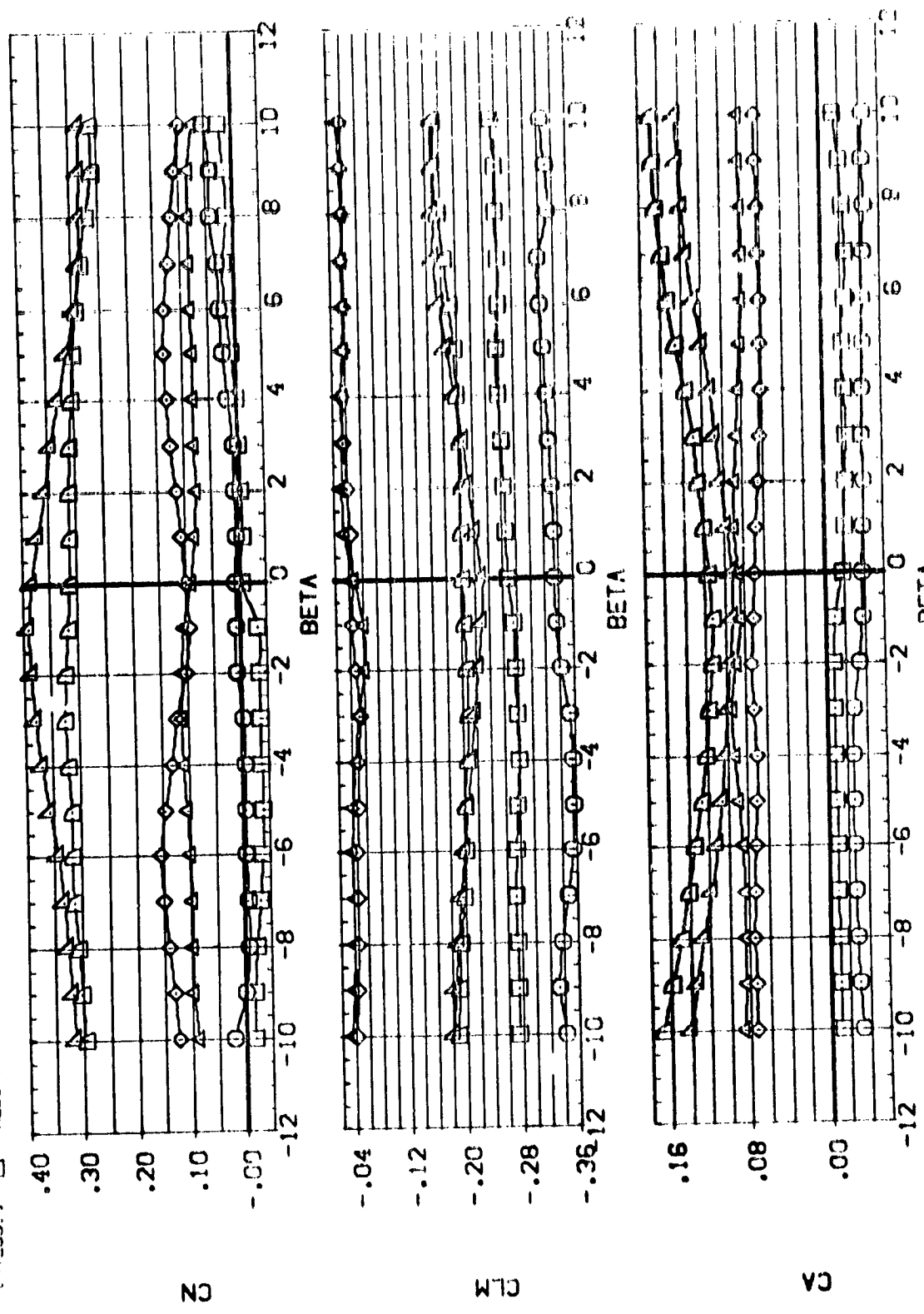
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRPOS	RVL	PT-JET	REFERENCE INFORMATION
(RT) 033	AEJC VA-422(A-57), CRB/ET V/80TH SRB	1.100	1.00	500.000	500.000
(RT) 038	AEJC VA-422(A-57), CRB/ET V/80TH SRB	1.100	1.00	500.000	500.000
(RT) 041	AEJC VA-422(A-57), CRB/ET V/80TH SRB	2.200	1.00	500.000	500.000
(RT) 042	AEJC VA-422(A-57), CRB/ET V/80TH SRB	2.200	1.00	500.000	500.000
(RT) 043	AEJC VA-422(A-57), CRB/ET V/80TH SRB	2.200	1.00	500.000	500.000
(RT) 044	AEJC VA-422(A-57), CRB/ET V/80TH SRB	3.300	1.00	500.000	500.000



EFFECT OF REYNOLDS NUMBER ON O/E CHARACTERISTICS

(A)MACH = 4.50

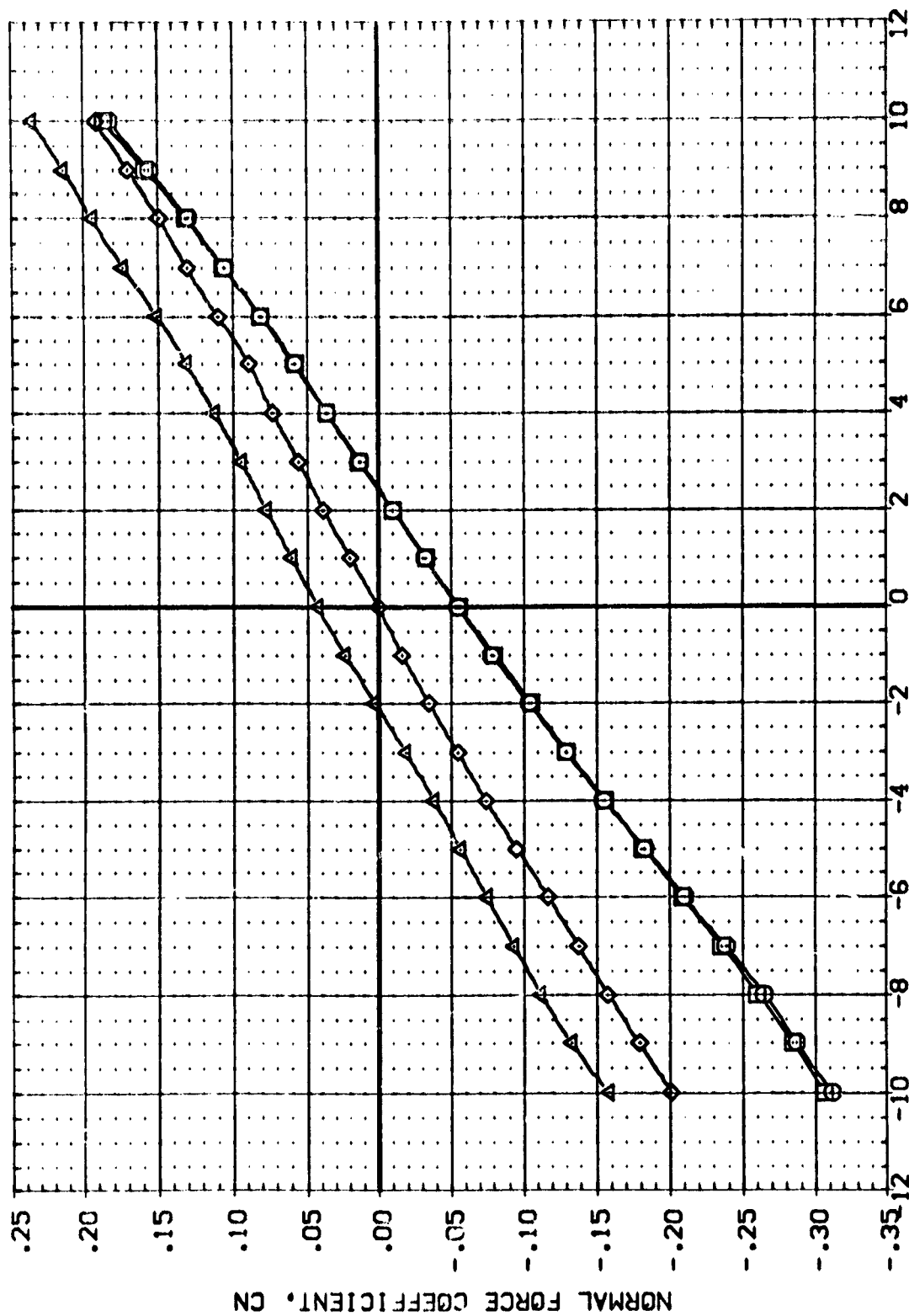
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRPOS	RVA	PT-DET	ALPHA	REFERENCE INFORMATION
[RTLO33]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	1.100	1.400	1500.00	.000	2680.0000
[RTLO38]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	1.100	1.780	500.000	.000	2680.0000
[RTLO44]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	2.200	1.400	500.000	.000	2680.0000
[RTLO50]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	2.200	1.780	500.000	.000	2680.0000
[RTLO55]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	3.300	1.400	500.000	.000	2680.0000
[RTLO61]	AEDE VA-422(IA-57): CRB/ET V/80TH SRB	3.300	1.780	500.000	.000	2680.0000



EFFECT OF REYNOLDS NUMBER ON O/ET CHARACTERISTICS

(M)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		BETA		REFERENCE INFORMATION	
(RTLO01)	□	AEDC VA-422(1A-57)	ISOLATED SRB/ET	.100	1.760	.000	1.760	.000	2650.0000	SC.FT.			
(RTLO09)	◇	AEDC VA-422(1A-57)	SRB/ET V/R/IGHT SRB	.100	1.760	.000	1.760	.000	2650.0000	SC.FT.			
(RTLO11)	△	AEDC VA-422(1A-57)	SRB/ET V/R/IGHT SRB	.100	1.760	.000	1.760	.000	2650.0000	SC.FT.			
(RTLO13)	×	AEDC VA-422(1A-57)	SRB/ET V/R/IGHT SRB	.100	1.760	.000	1.760	.000	2650.0000	SC.FT.			

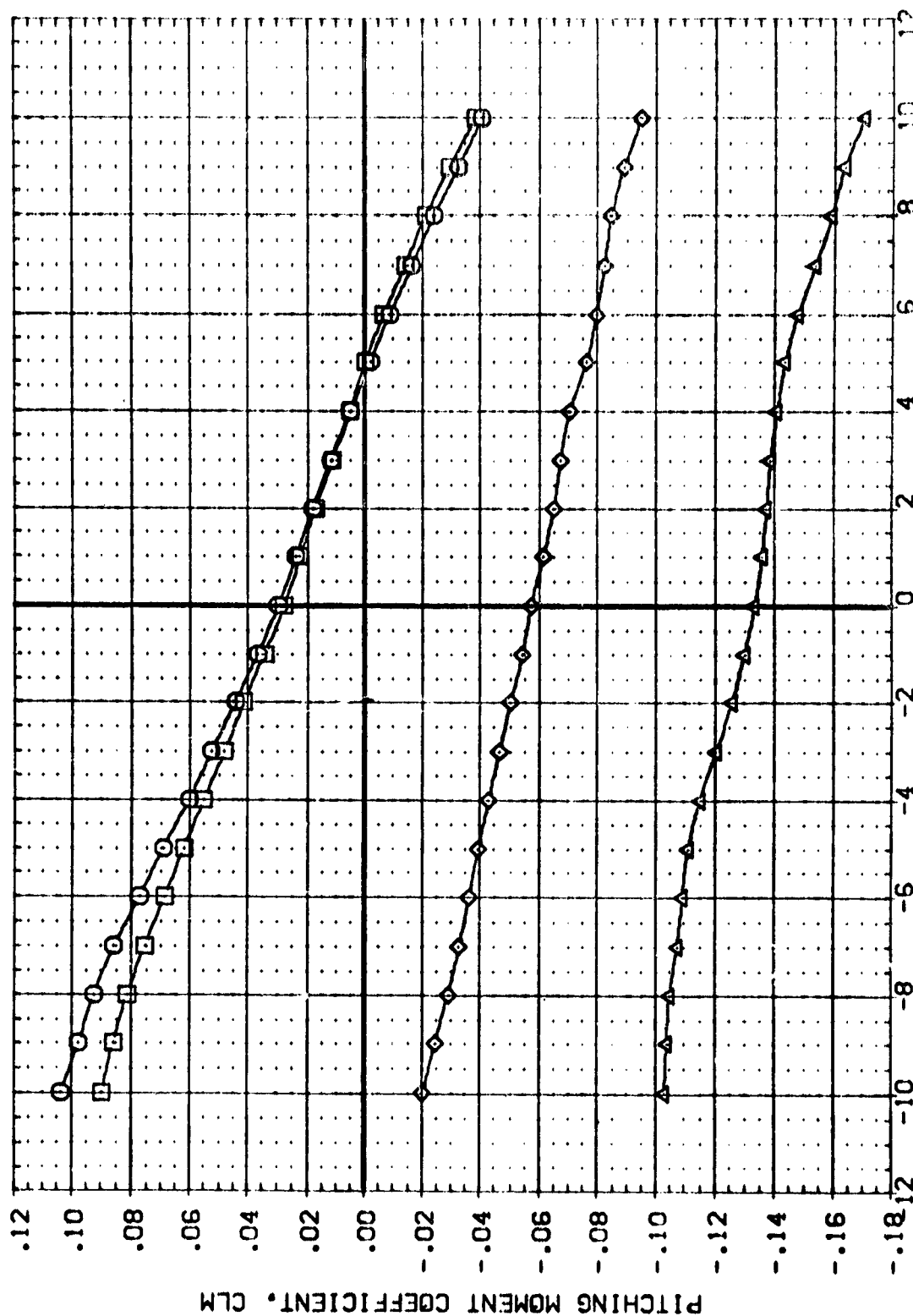


EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(1A-57). ISOLATED ORB/ET
 (RTLO09) AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 (RTLO11) AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 (RTLO13) AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB

SRBPOS RN/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 .000 SRREF 2690.0000 SO.FT.
 .100 1.760 .000 LRREF 1290.3000 IN.
 .100 1.760 750.000 BRREF 1290.3000 IN.
 .100 1.760 1500.000 XMRP 1052.0000 IN.
 YMRP 447.0000 IN.
 ZMRP 447.0000 IN.
 SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

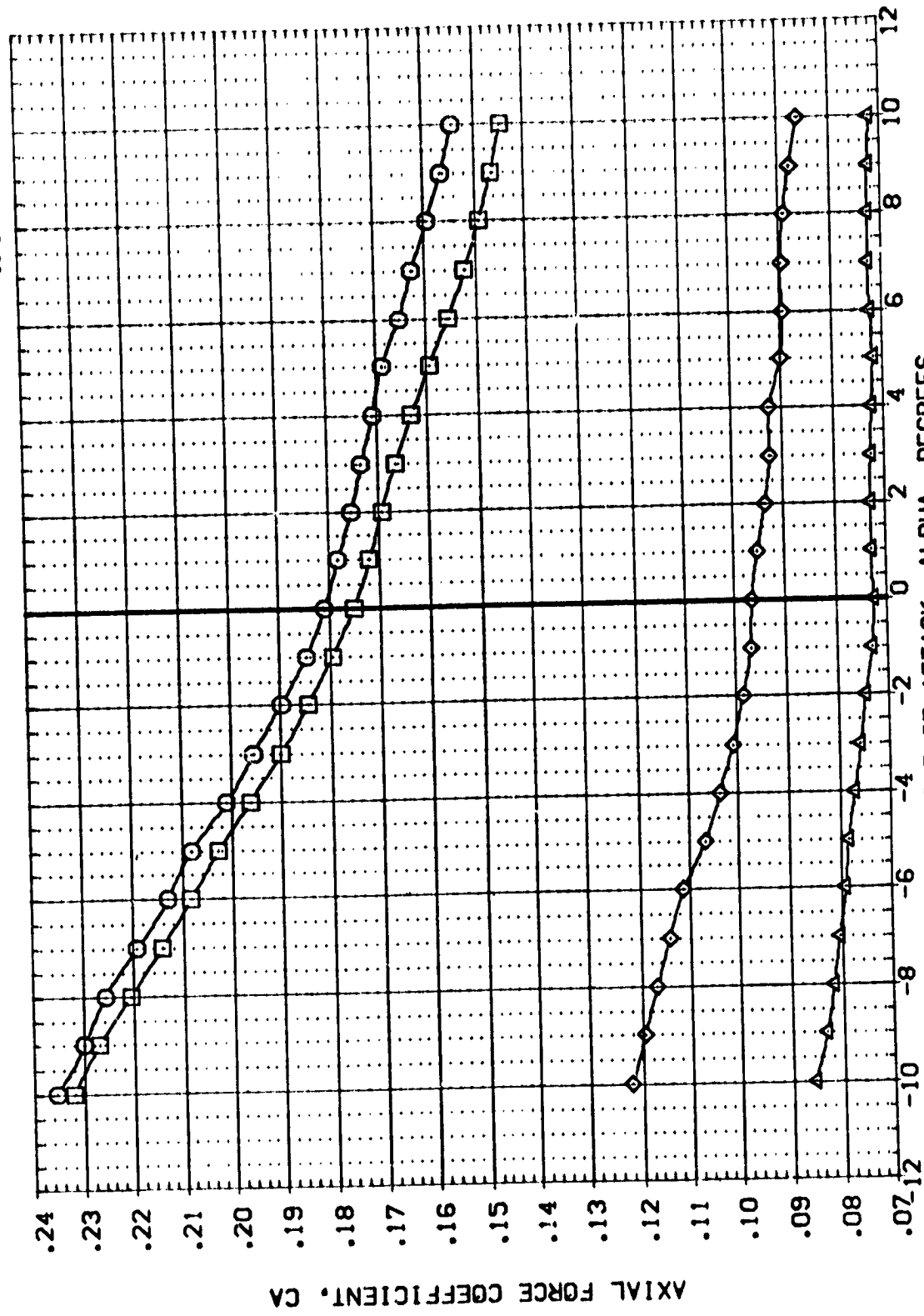
(RTLO01) AEDC VA-422(1A-57): ISOLATED ORB/ET SRB
 (RTLO09) AEDC VA-422(1A-57): ORB/ET V/R/RIGHT SRB
 (RTLO11) AEDC VA-422(1A-57): ORB/ET V/R/RIGHT SRB
 (RTLO13) AEDC VA-422(1A-57): ORB/ET V/R/RIGHT SRB

SRB POS RV/L PT-JET BETA

.100 1.760 .000
 .100 1.760 .000
 .100 1.760 .000

REFERENCE INFORMATION

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 LREF 180.3000
 BREF 180.3000
 XREF 180.3000
 YREF 180.3000
 ZREF 447.0000
 SCALE 0.100

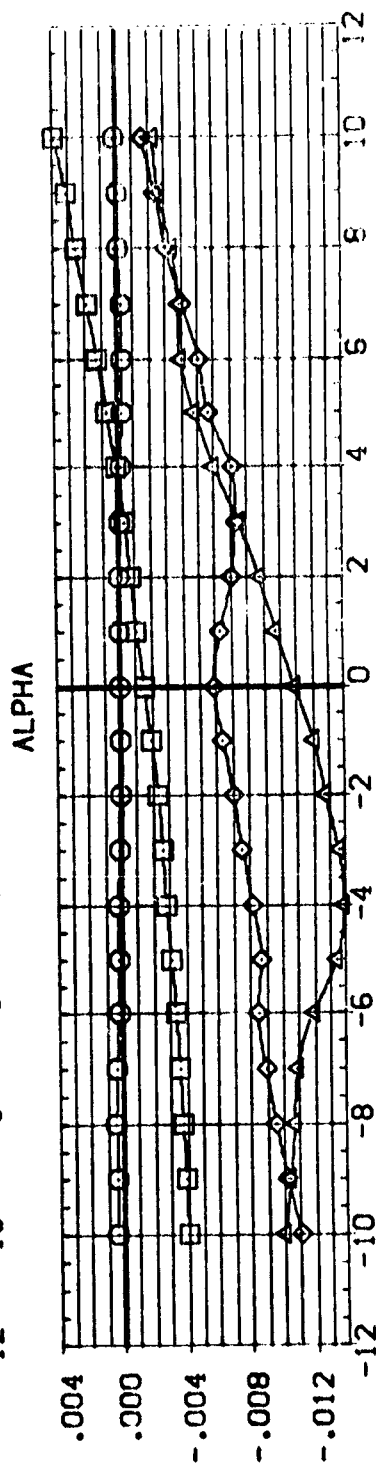
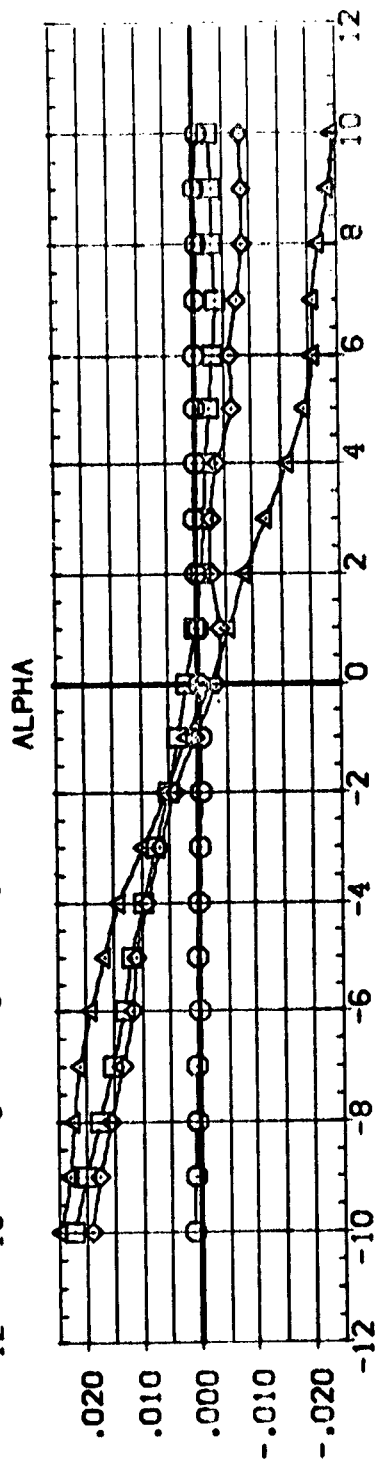
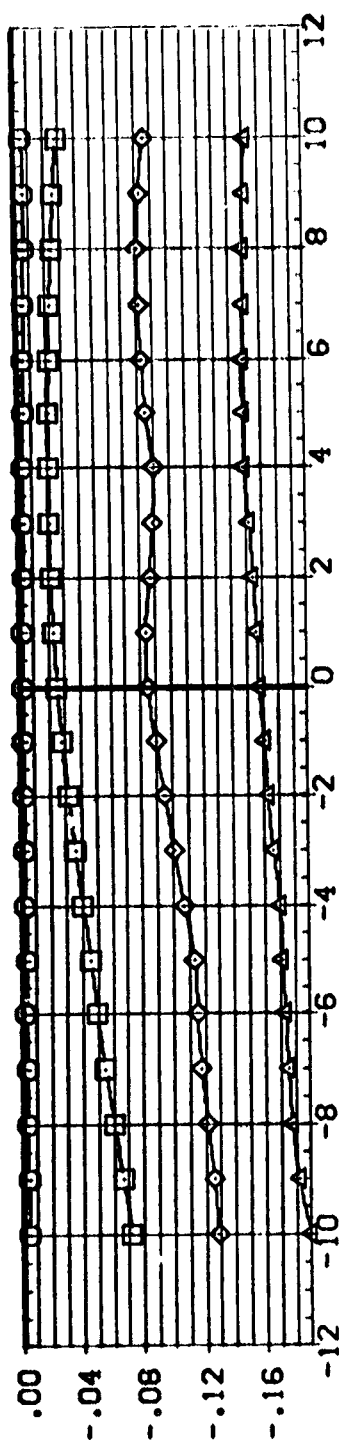


EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

CA/MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(1A-57); ISOLATED ORB/ET SRB
 (RTLO09) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (RTLO11) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (RTLO13) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB

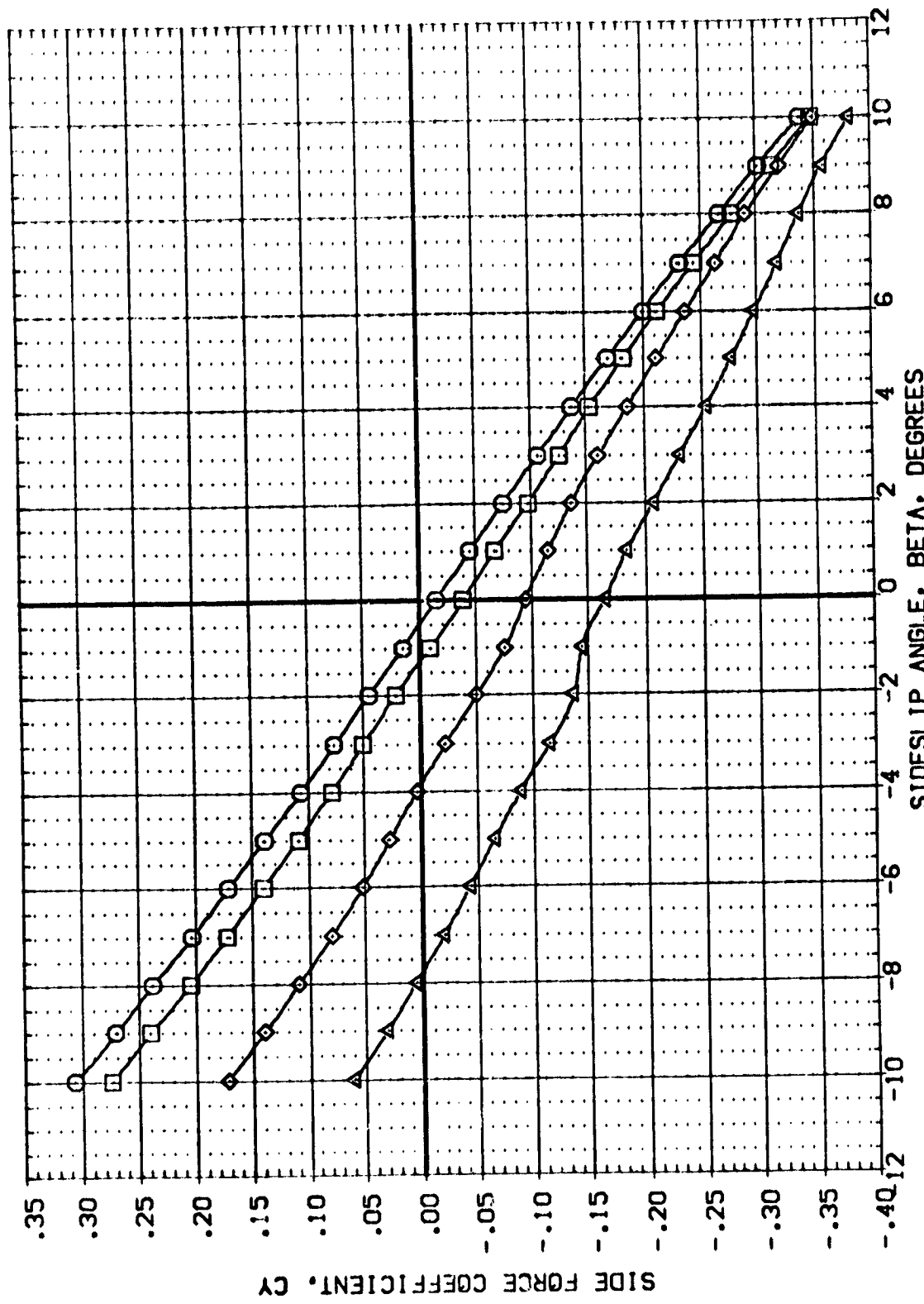
SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 .760 .000 SREF 2690.0000 SQ.FT.
 .100 .760 .000 LREF 1290.3000 IN.
 .100 .760 .000 BREF 1290.3000 IN.
 .100 .760 .000 XMRP 1052.0000 IN.
 .100 .760 .000 YMRP 447.0000 IN.
 .100 .760 .000 ZMRP 447.0000 IN.
 SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLO02)	AEDC VA-422(1A-57); ISOLATED ORB/ET SRB	.100	.760	.000	.000	SREF 2690.0000 SQ.FT.
(RTLO10)	AEDC VA-422(1A-57); CRB/ET V/R/RIGHT SRB	.100	.760	.000	.000	SREF 1260.3000
(RTLO12)	AEDC VA-422(1A-57); CRB/ET V/R/RIGHT SRB	.100	.760	750.000	.000	SREF 1260.3000
(RTLO14)	AEDC VA-422(1A-57); CRB/ET V/R/RIGHT SRB	.100	.760	150.000	.000	SREF 1260.3000
						WREF 447.0000
						ZREF 447.0000
						SCALE



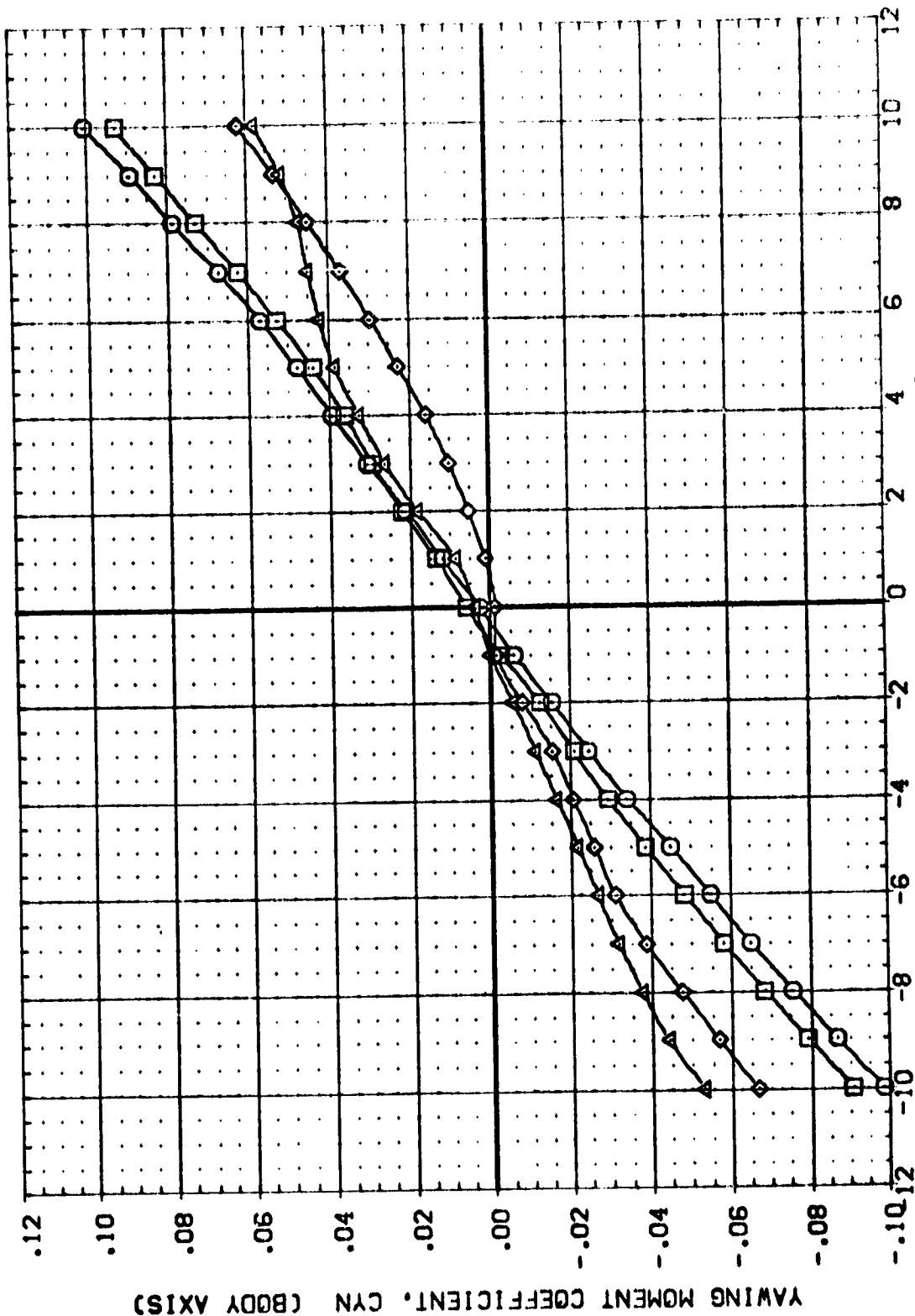
EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTL002) AEDC VA-422(1A-57): ISOLATED ORB/ET SRB
 (RTL010) AEDC VA-422(1A-57): ORB/ET V/R(LEFT) SRB
 (RTL012) AEDC VA-422(1A-57): ORB/ET V/R(LEFT) SRB
 (RTL014) AEDC VA-422(1A-57): ORB/ET V/R(LEFT) SRB

SRBPOS RV/L PT-JET ALPHA
 .100 1.760 .000
 .100 1.760 .000
 .100 1.760 750.000
 .100 1.760 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 IN.
 BREF 1290.3000 IN.
 XT 152.0000 IN.
 YREF .0000 IN.
 ZREF 447.0000 IN.
 SCALE .0100



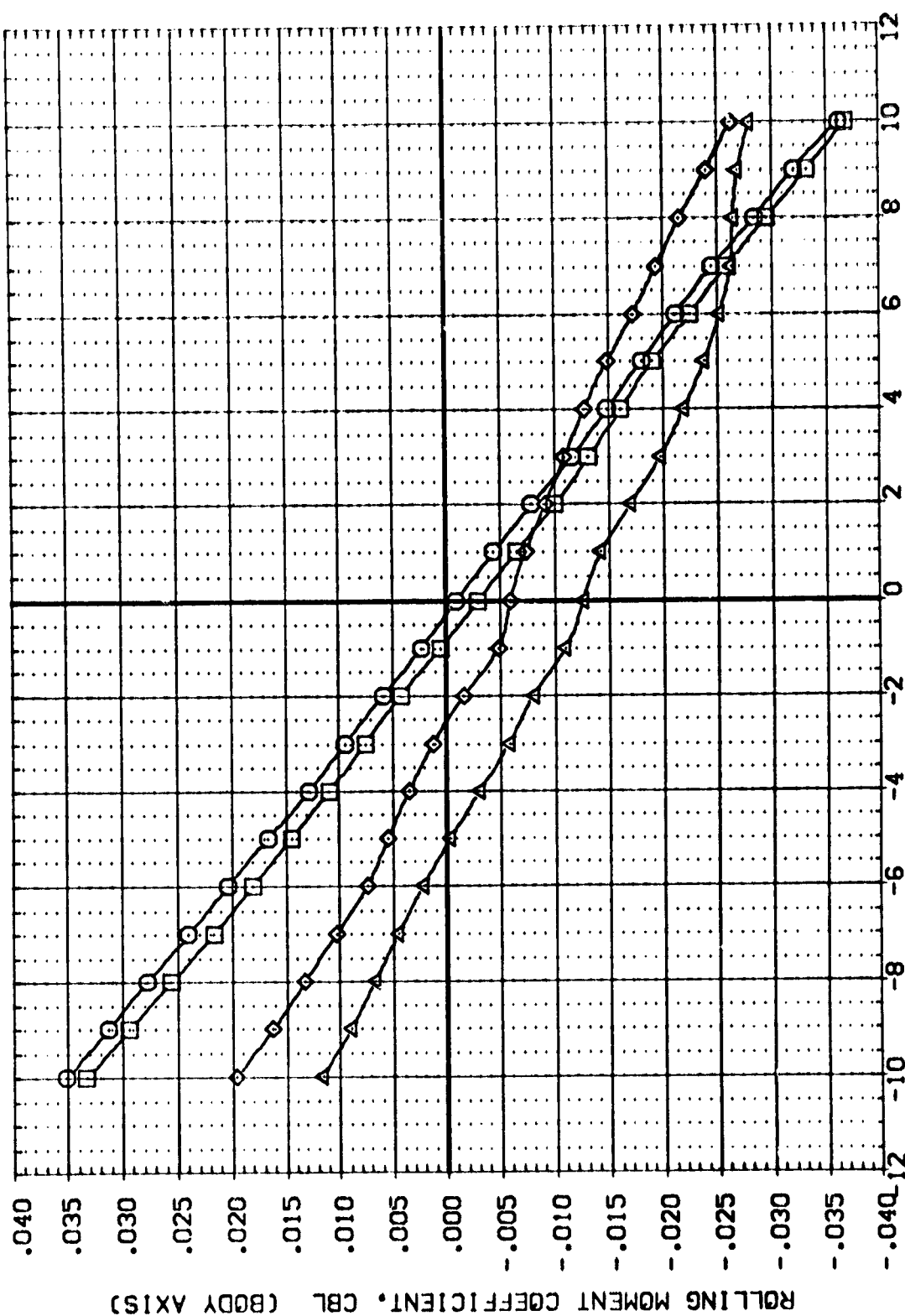
EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTL002) AEDC VA-422(1A-57): ISOLATED ORB/ET SRB
 (RTL010) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTL012) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTL014) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET ALPHA
 .100 1.760 .000
 .100 1.760 .000
 .100 1.760 750.000
 .100 1.760 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 SC. FT.
 LREF 1260.0000 IN.
 SREF 1260.0000 IN.
 XREF 1260.0000 IN.
 YREF 1260.0000 IN.
 ZREF 1260.0000 IN.
 XPRP 0.0000
 YPRP 0.0000
 ZPRP 0.0000
 SCALE 447.0000



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL
 (RTLO02)
 (RTLO01)
 (RTLO12)
 (RTLO14)

CONFIGURATION DESCRIPTION
 AEDC VA-422(1A-57): ISOLATED ORB/ET SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

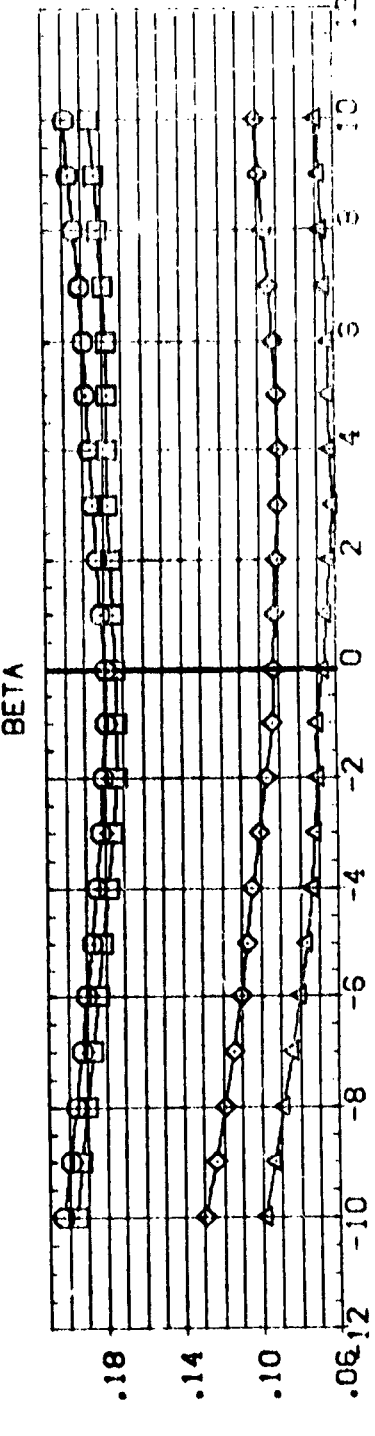
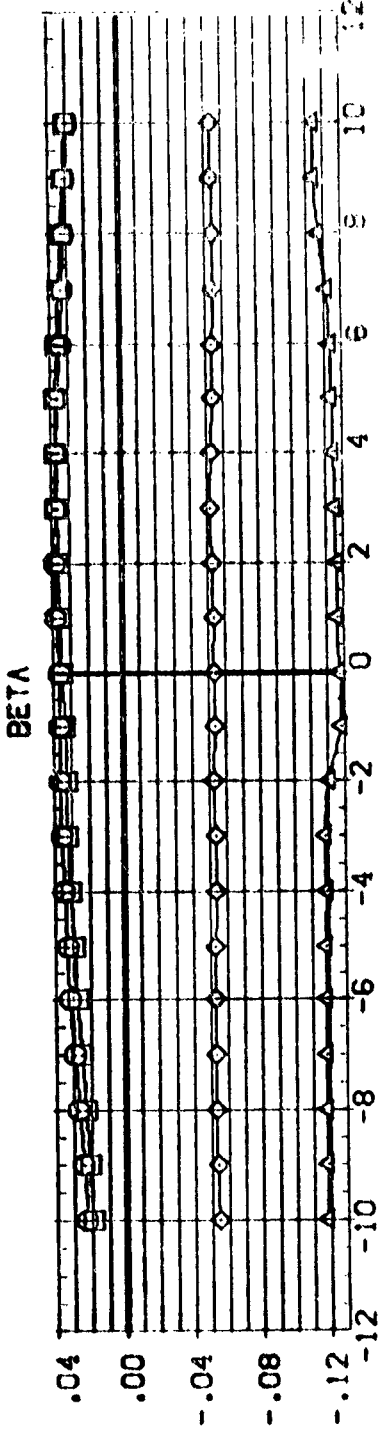
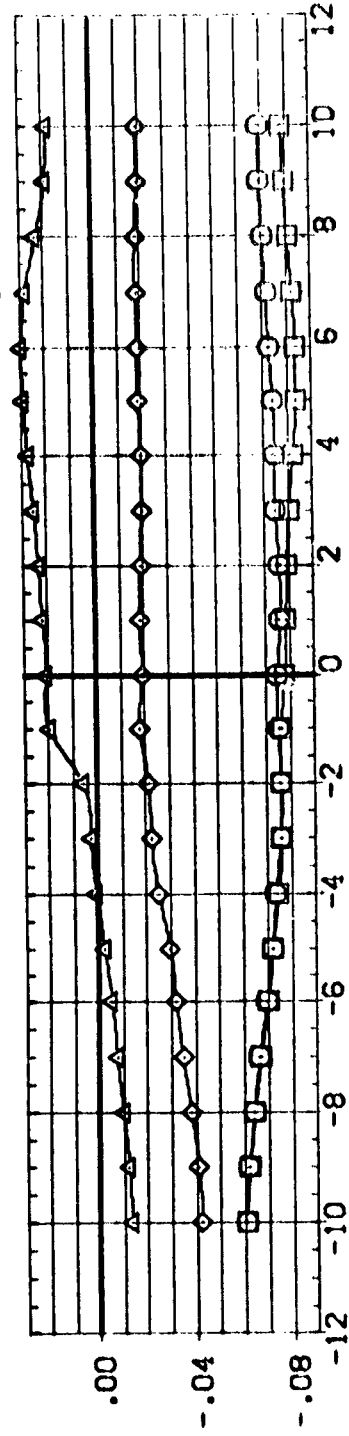
SRBPCS
 .100
 .100
 .100

RV/L
 1.760
 1.760
 1.760

PT-JET
 .000
 .000
 .000

ALPHA
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 .000
 .000

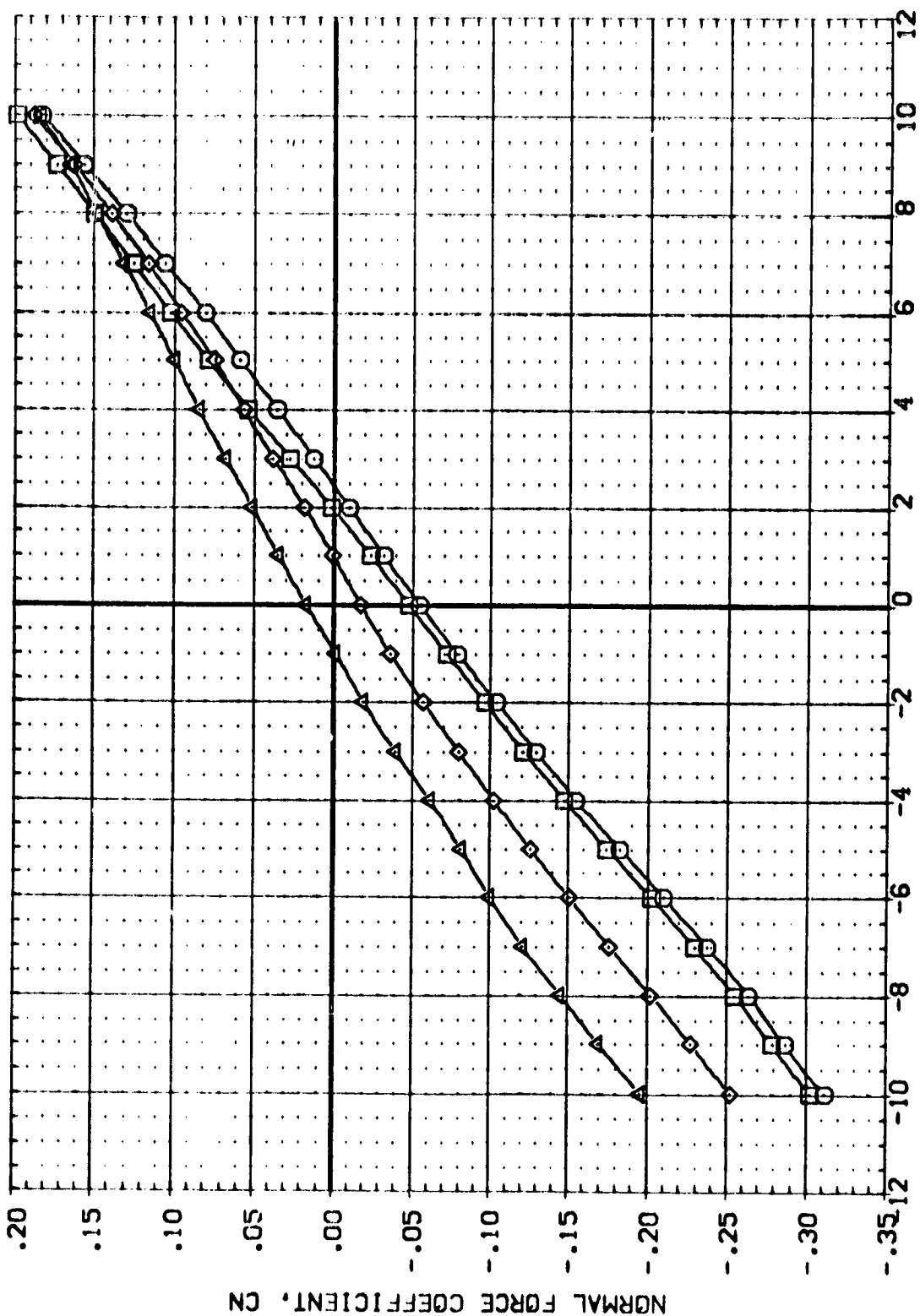
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 XPROP 752.0000
 YPROP 447.0000
 ZPROP .0100
 SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTERISTICS (POSITION 1)

(A) MACH = 4.50

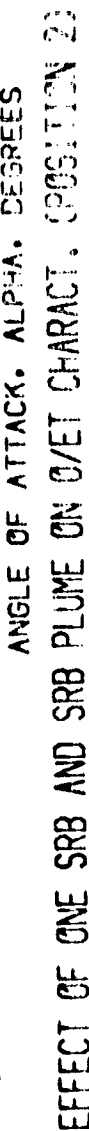
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		BETA		REFERENCE INFORMATION	
(RTLO01)	□	AEDC VA-422(A-57): ISOLATED ORB/ET		.200	1.760	.000						SREF	2690.0000
(RTLO17)	□	AEDC VA-422(A-57): ORB/ET V/RIGHT SRB		.200	1.760	.000						LREF	2690.0000
(RTLO19)	□	AEDC VA-422(A-57): ORB/ET V/RIGHT SRB		.200	1.760	.000						BREF	2690.0000
(RTLO21)	□	AEDC VA-422(A-57): ORB/ET V/RIGHT SRB		.200	1.760	.000						YREF	2690.0000
												ZREF	447.0000
												SCALE	.0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTERISTICS (POSITION 2)

(M)MACH = 4.50

REFERENCE INFORMATION	
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99REF	2590 0000
100REF	2590 0000


$$[A]_{MACH} = 4.50$$

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RTLC0171
RTLC0191
RTLC021

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AEDC VA-422(1A-57). ISOLATED ORB/ET S98
AEDC VA-422(1A-57). ORB/ET V/R/IGHT S98
AEDC VA-422(1A-57). ORB/ET V/R/IGHT S98
AEDC VA-422(1A-57). ORB/ET V/R/IGHT S98

50-105

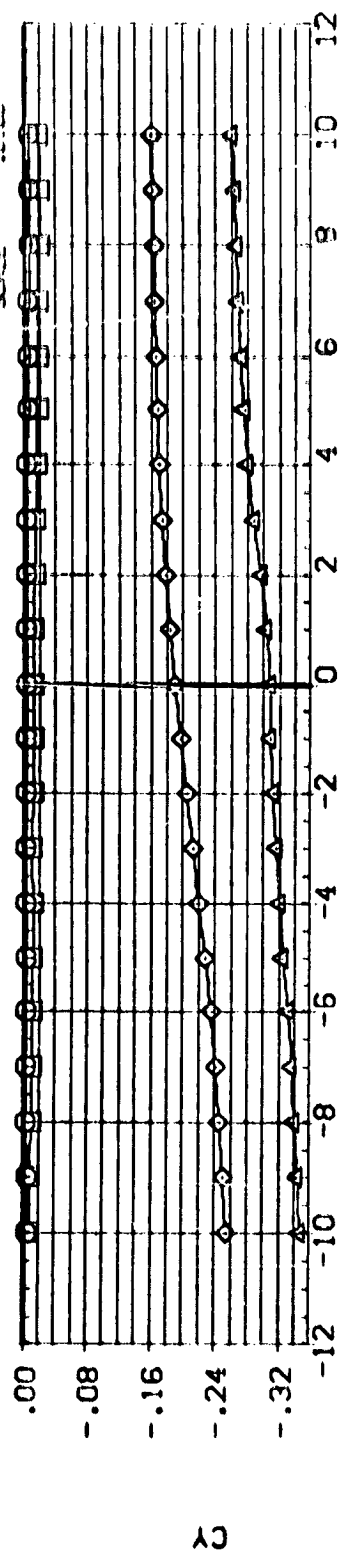
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1.760	000
1.760	750
1.760	150

BETA

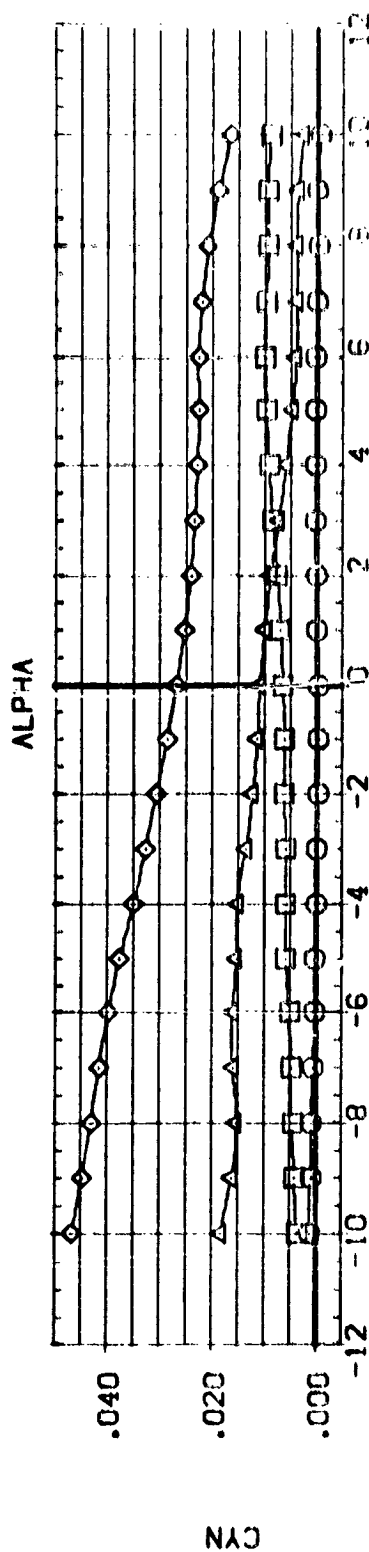
8888

SECRET - EYES ONLY

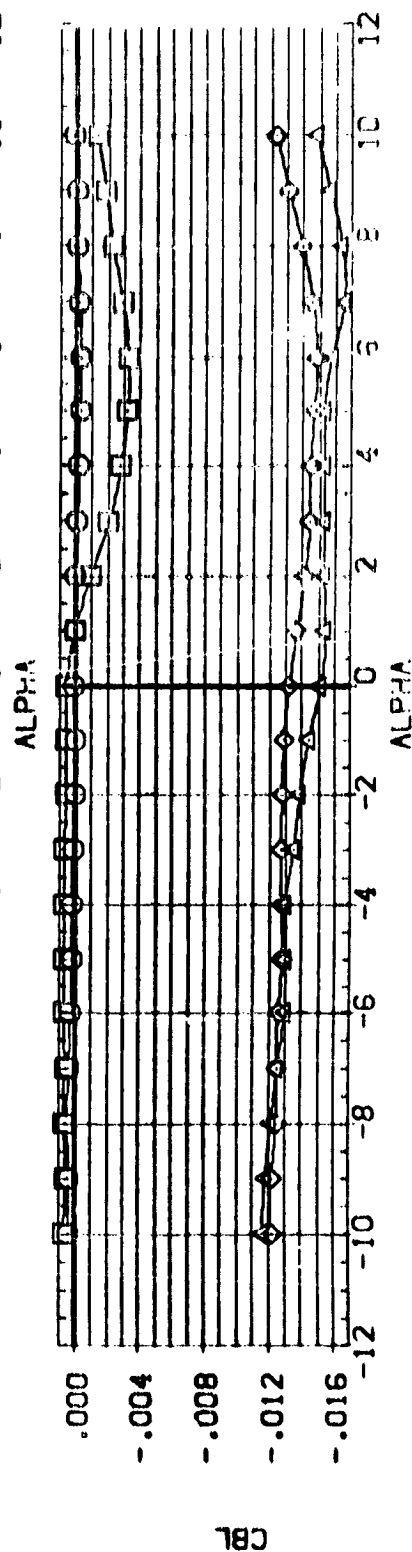
1. 姓名: 张三
 2. 性别: 男
 3. 年龄: 25
 4. 职业: 教师
 5. 籍贯: 广东
 6. 民族: 汉族
 7. 婚姻状况: 已婚
 8. 子女情况: 1子1女
 9. 健康状况: 良好
 10. 兴趣爱好: 阅读、运动



13



CYN

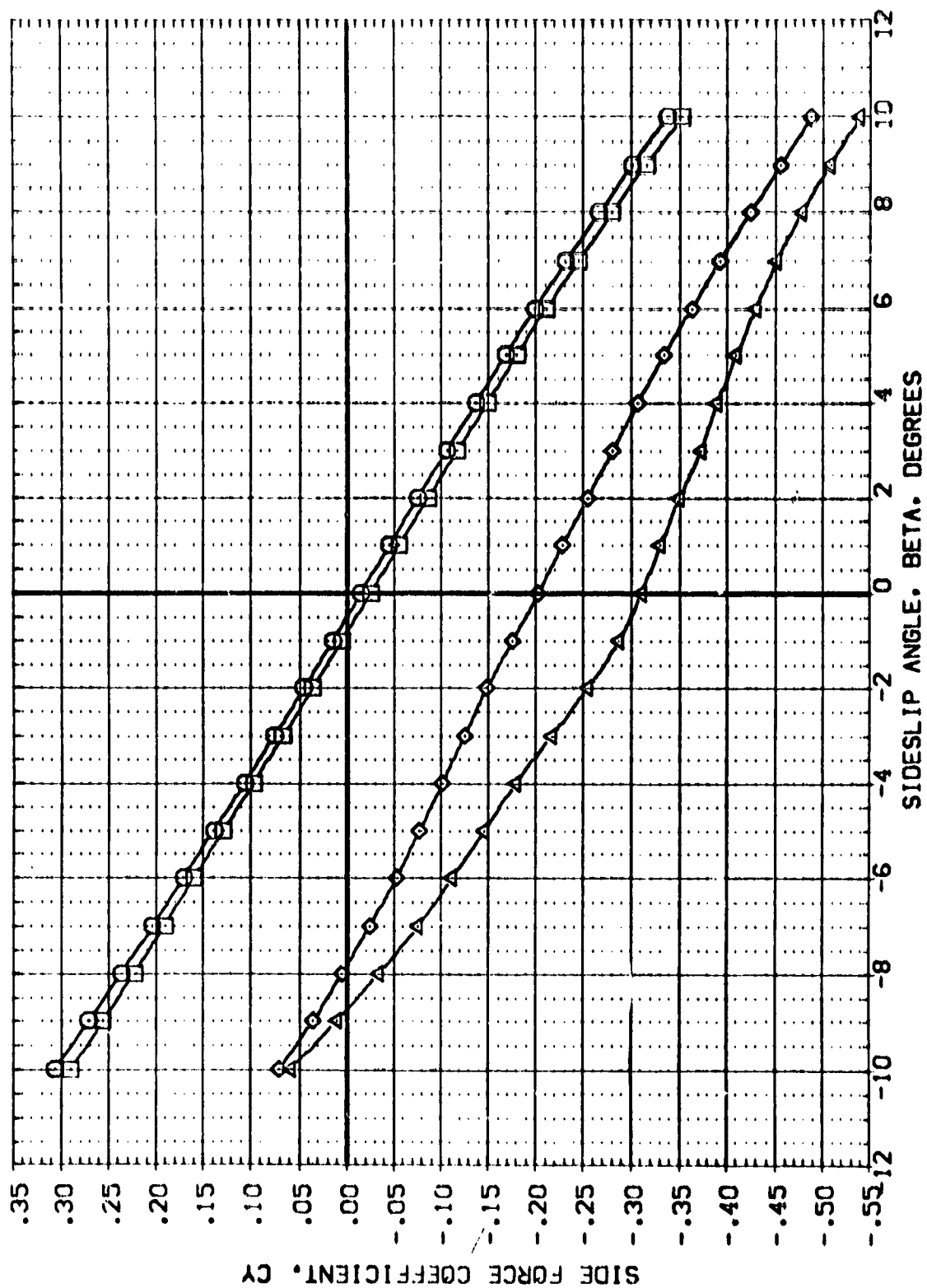


CBL

EFFECT OF ONE SRB AND SRB PLUME ON O/VET CHARACT. POSITION. 23

$$C(A) \approx \text{ACH} = 4.50$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(R1002)	AEDC VA-422(1A-57); ISOLATED ORB/ET SRB	.200	1.760	.000	.000	2650 0000 52.57
(R1018)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	.000	.000	2650 0000 52.57
(R1022)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	750.000	.000	2650 0000 52.57
(R1022)	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	2650 0000 52.57



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

CONFIGURATION DESCRIPTION

DATA SET SYMBOL

CONFIGURATION	DESCRIPTION
AEDC VA-422[1A-57].	ISOLATED ORB/ET
AEDC VA-422[1A-57].	ORB/ET W/RIGHT SRB
AEDC VA-422[1A-57].	ORB/ET W/RIGHT SRB
AEDC VA-422[1A-57].	ORB/ET W/RIGHT SRB

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AEDC VA-422(1A-57). ISOLATED ORB/ET ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB

2002.2003.2004

11.780 11.781 11.782 11.783

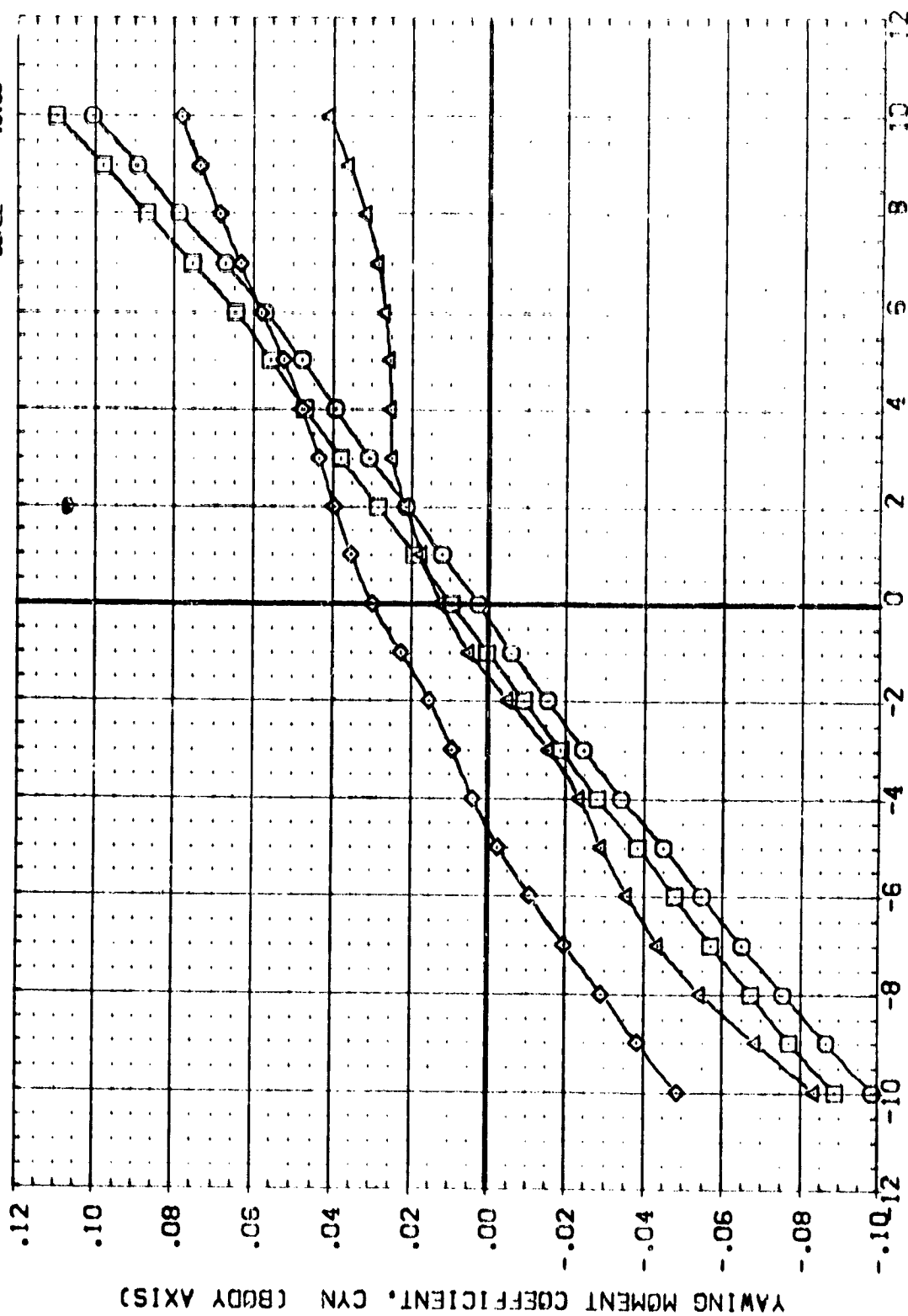
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888
888

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544

88-1111

14



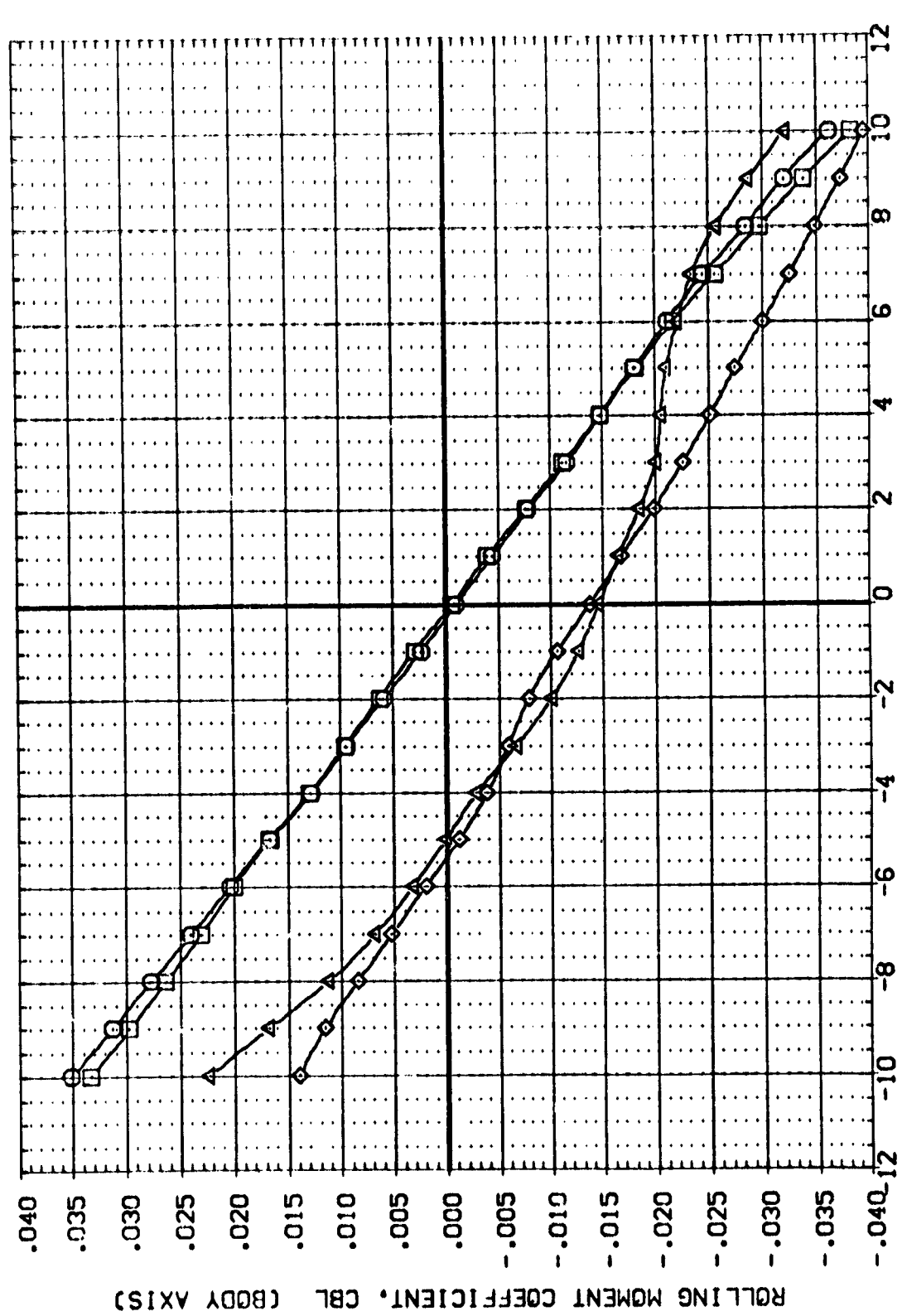
EFFECT OF ONE SRB AND SRB PLUME ON Q/ET CHARACTER. (POSITION 2)

$$[A]_{\text{MACH}} = 4.50$$

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RTLO02)	AEDC VA-422(1A-57), ISOLATED SRB/ET				.000	SO. FT.
(RTLO18)	AEDC VA-422(1A-57), CRB/ET V/RIGHT SRB	.200	1.760	.000	.000	IN
(RTLO20)	AEDC VA-422(1A-57), CRB/ET V/RIGHT SRB	.200	1.760	750.000	.000	IN
(RTLO22)	AEDC VA-422(1A-57), CRB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	IN
						Y
						Z
						SCALE
						447.0000
						.0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 2)

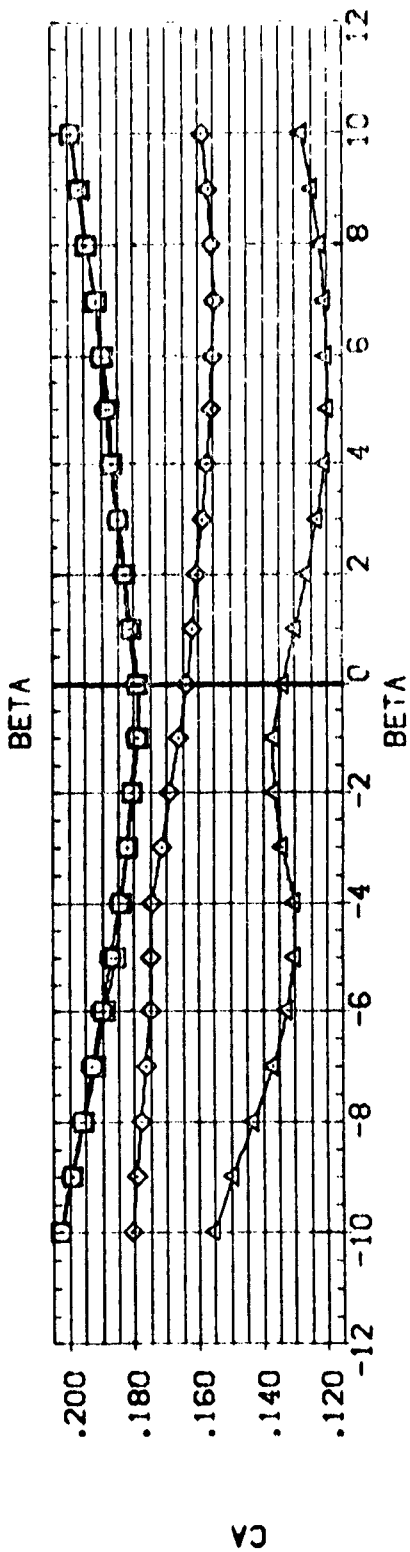
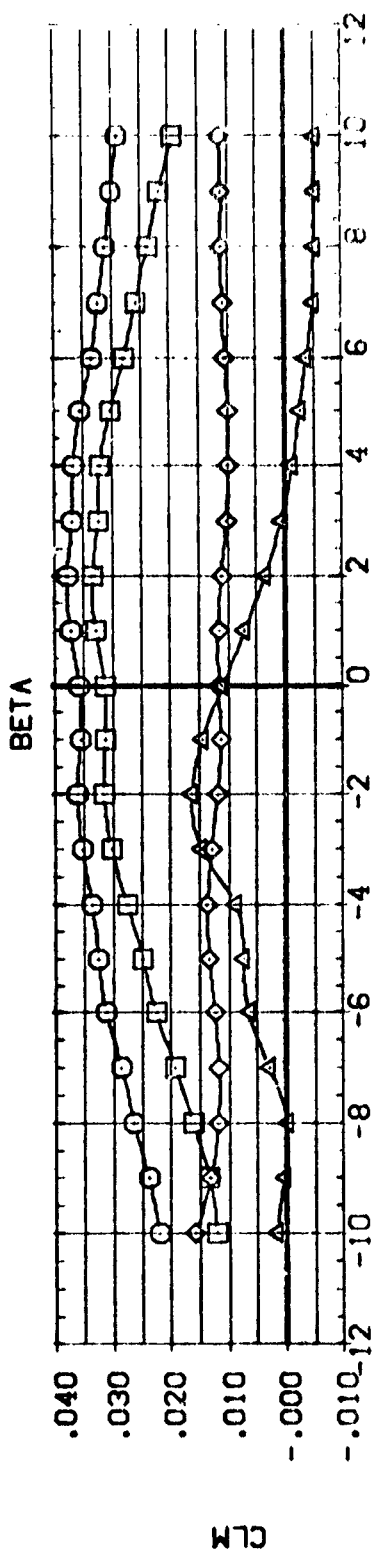
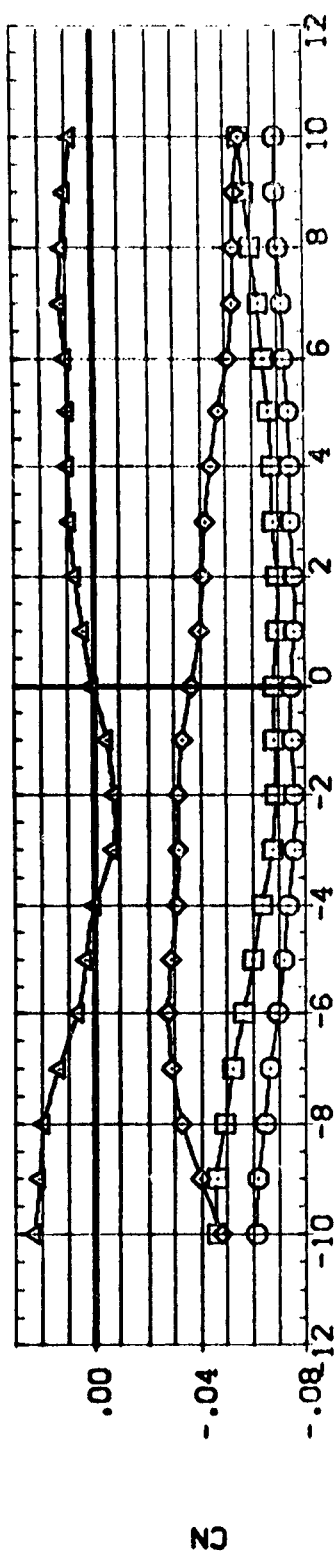
(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO02) AEDC VA-422(1A-57): ISOLATED ORB/ET SRB
 (RTLO18) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTLO20) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 (RTLO22) AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION

200 1.760 .000 SREF 2690.000 SC.FT.
 200 1.760 .000 LREF 1290.000 IN.
 200 1.760 750.000 XCRP 1290.000 IN.
 200 1.760 1500.000 YCRP 1290.000 IN.
 447.0000 ZCRP 1290.000 IN.
 .0100 SCALE



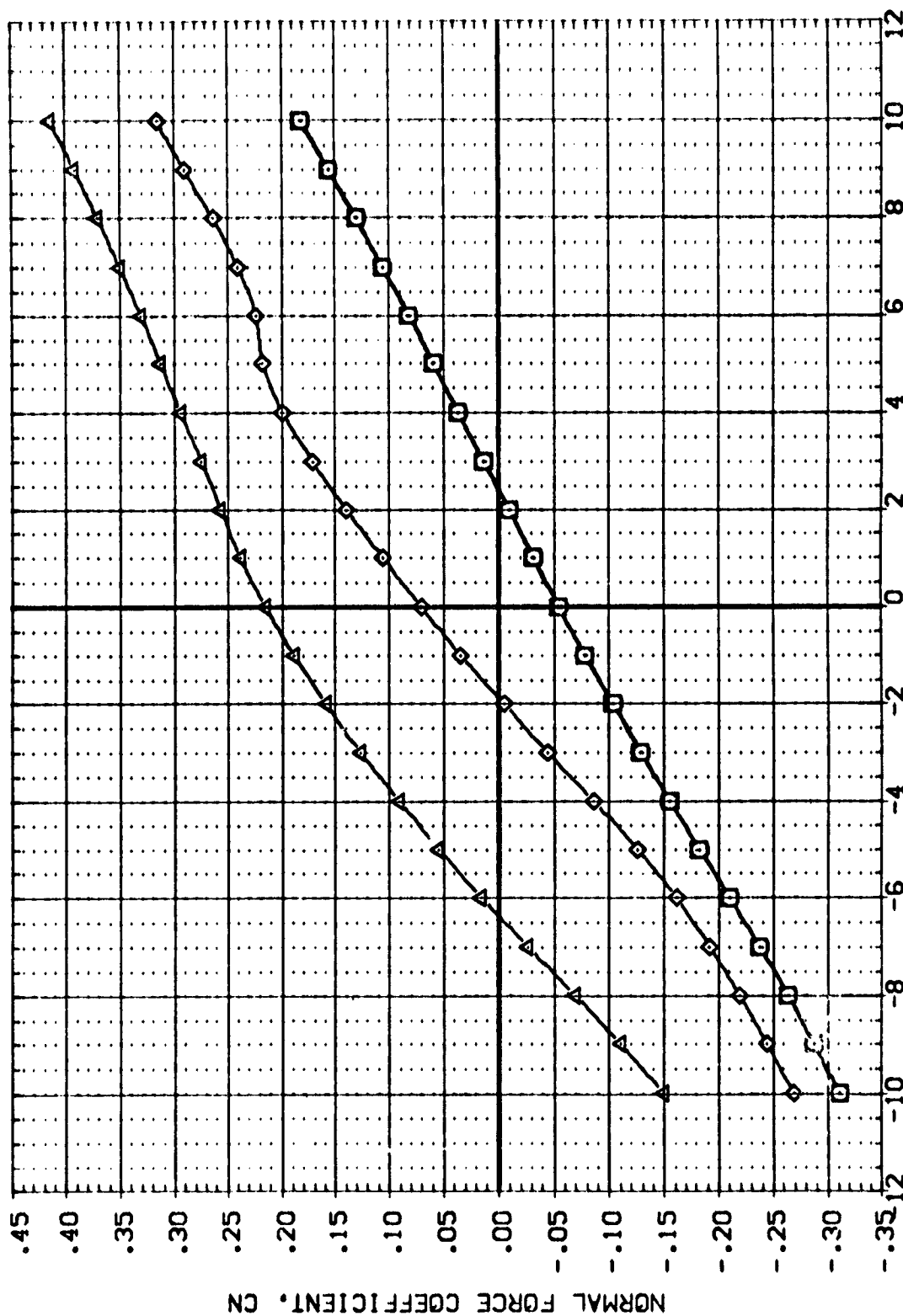
EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTLO01) AEDC VA-422(A-57), ISOLATED ORB/ET SRB
 (RTLO25) AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
 (RTLO27) AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
 (RTLO29) AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .300 1.760 .000 SREF 2690.0000 SC.FT.
 .300 1.760 .000 LREF 1290.3000 IN.
 .300 1.760 750.000 BREF 1290.3000 IN.
 .300 1.760 1500.000 XREF 1290.3000 IN.
 .300 1.760 1500.000 YREF 1290.3000 IN.
 .300 1.760 1500.000 ZREF 1290.3000 IN.
 .300 1.760 1500.000 SCALE 447.5000 IN.



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

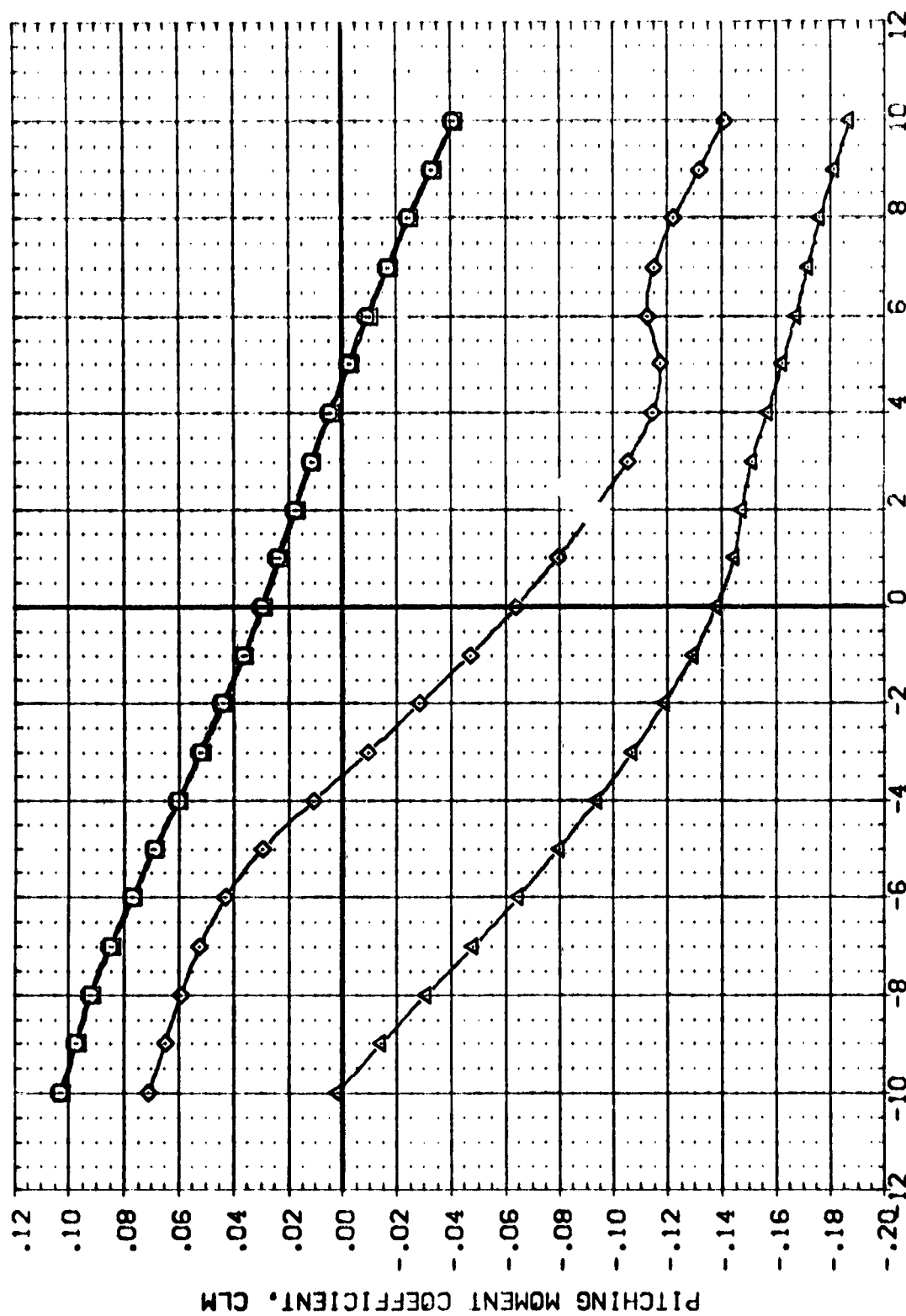
(MACH = 4.50)

DATA SET SYMBOL:   

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ISOLATED ORB/ET
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

SRB POS RVL PT-JET BETA REFERENCE INFORMATION

SRB POS	RVL	PT-JET	BETA	SREF	LREF	BREF	XMRP	ZMRP	SCALE	SO.FT.
.300	1.760	.000	.000	2690.0000	290.0000	290.0000	290.0000	290.0000	447.0000	26.00
.300	1.760	750.000	.000	2690.0000	290.0000	290.0000	290.0000	290.0000	447.0000	26.00
.300	1.760	1500.000	.000	2690.0000	290.0000	290.0000	290.0000	290.0000	447.0000	26.00



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

(M)MACH = 4.50

PAGE 104

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[RT-001] AEDC VA-422(A-57): ISOLATED ORB/ET SRPREF 2690.0000 SQ.FT.

[RT-025] AEDC VA-422(A-57): ORB/ET V/RIGHT SRB LRREF 1290.3000 IN.

[RT-027] AEDC VA-422(A-57): ORB/ET V/RIGHT SRB SRPREF 269.3000 IN.

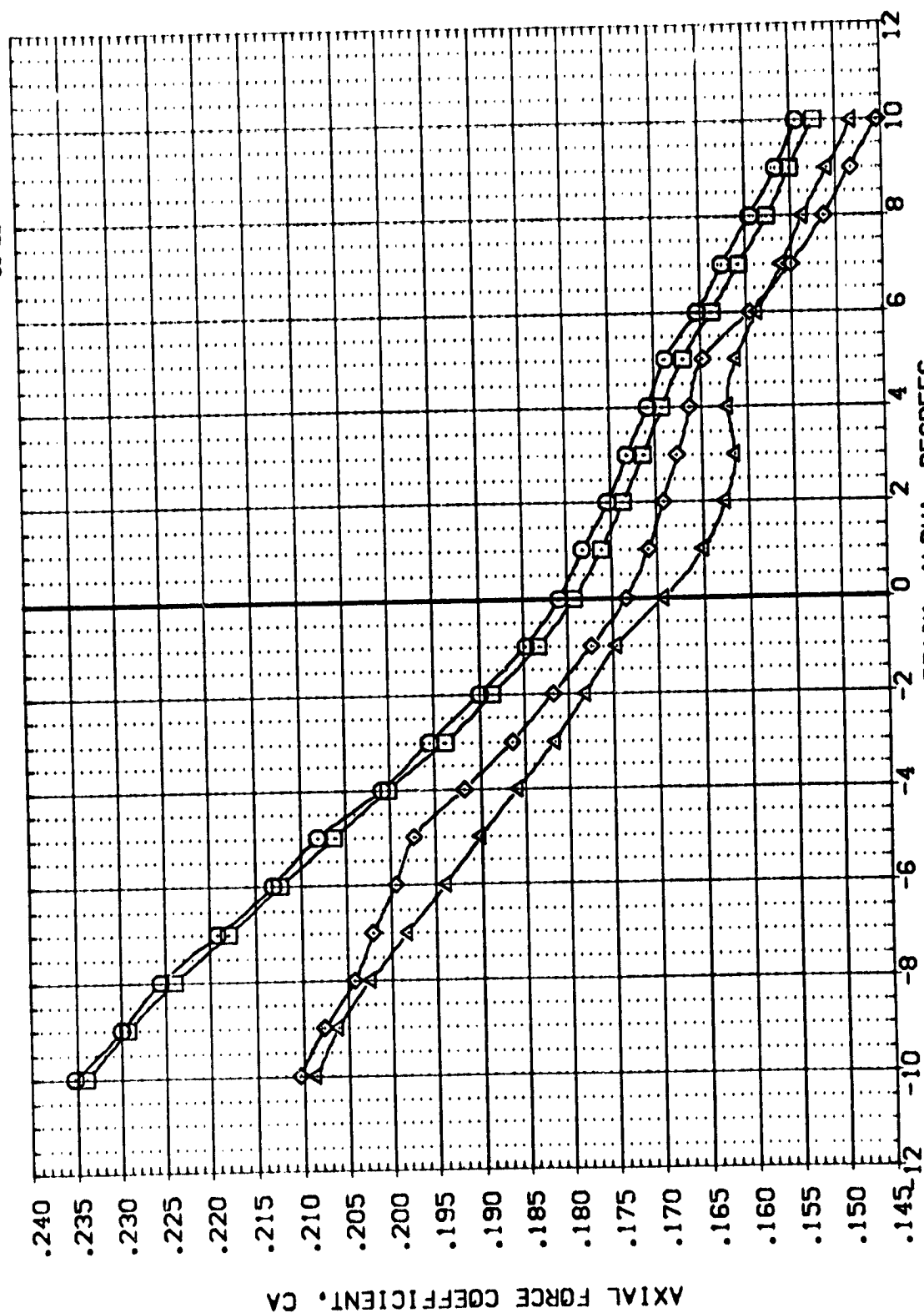
[RT-029] AEDC VA-422(A-57): ORB/ET V/RIGHT SRB XREF 269.3000 IN.

SRBPOS RV/L PT-JET BETA SCALE

.300 1.760 .000 .000 447.0000 IN.

.300 1.760 750.000 .000 .0000 IN.

.300 1.760 1500.000 .000 .0000 IN.



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

(MACH = 4.50)

DATA SET SYMBOL: (RTLC001) (RTLC025) (RTLC027) (RTLC029)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57): ISOLATED SRB/ET AEDC VA-422(1A-57): SRB/ET W/RIGHT SRB AEDC VA-422(1A-57): SRB/ET W/RIGHT SRB AEDC VA-422(1A-57): SRB/ET W/RIGHT SRB

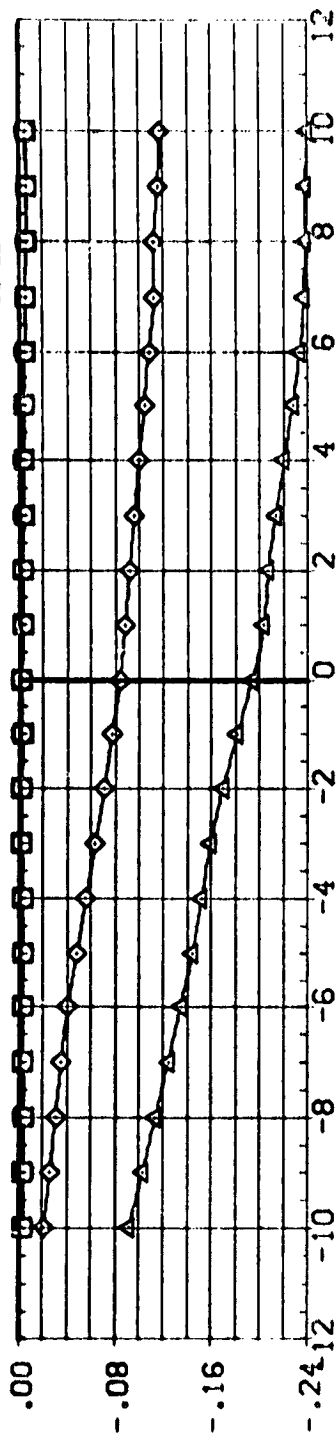
SRBPOS: .300 .300 .300

RNVL: 1.760 1.760 1.760

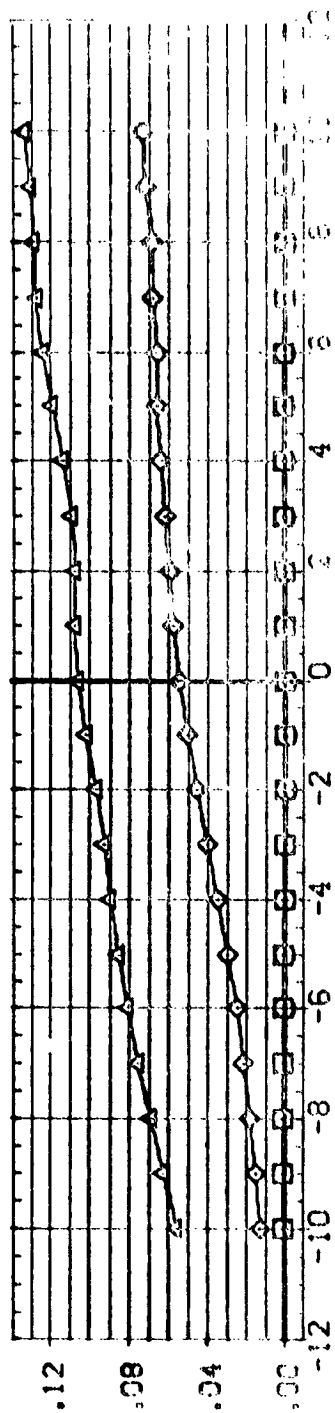
PT-JET: .000 .000 .000

BETA: .000 .000 .000

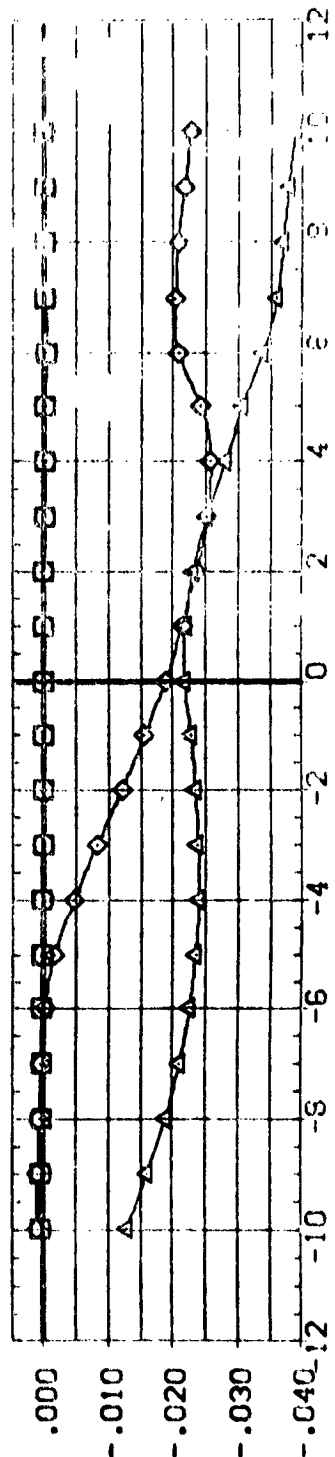
REFERENCE INFORMATION: SREF 2690.0000 SC.FT. LREF 1290.3000 IN. XT YMRP 1052.0000 IN. YT ZMRP 447.0000 IN. ZT SCALE 0.100



ALPHA



ALPHA



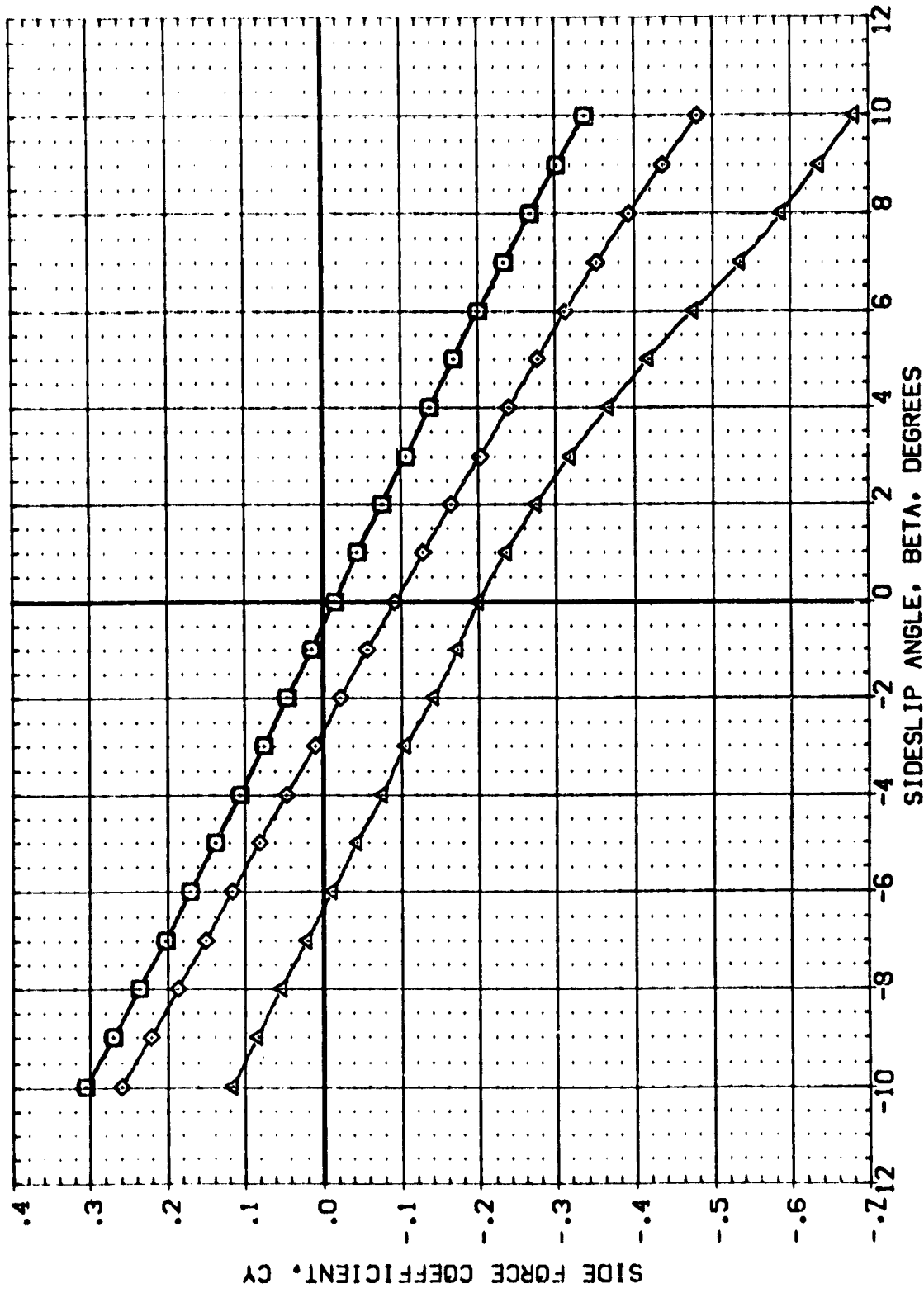
ALPHA

EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

(A)MACH = 4.50

FIG. 10

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION	
(RTLO02)	AEDC VA-422(A-57); ISOLATED ORB/ET	.300	1.760	.000	.000	SREF	2690.0000
(RTLO26)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.300	1.760	.000	.000	LREF	1290.0000
(RTLO28)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.300	1.760	750.000	.000	BREF	290.0000
(RTLO30)	AEDC VA-422(A-57); ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	XMRP	1052.0000
						YMRP	0.0000
						ZMRP	447.0000
						SCALE	.0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RTLO02] AEDC VA-422(1A-57). ISOLATED SRB/ET

[RTLO26] AEDC VA-422(1A-57). SRB/ET V/RIGHT SRB

[RTLO28] AEDC VA-422(1A-57). SRB/ET V/RIGHT SRB

[RTLO30] AEDC VA-422(1A-57). SRB/ET V/RIGHT SRB

SRB POS RV/L PT-JET ALPHA REFERENCE INFORMATION SQ.FT.

.300 1.760 .000 SREF 2690.0000 IN.

.300 1.760 .000 LREF 1290.3000 IN.

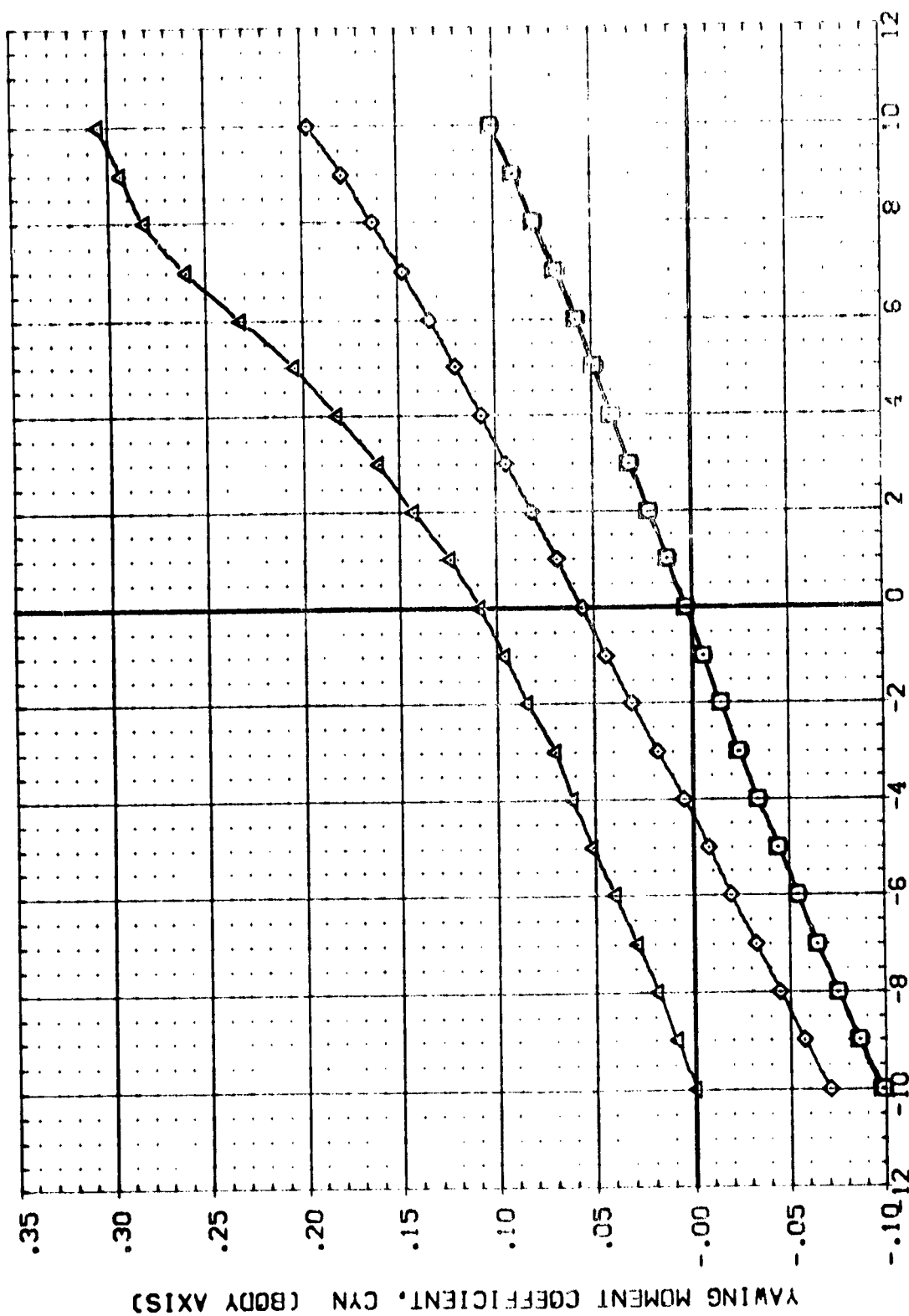
.300 1.760 750.000 SREF 1290.3000 IN.

.300 1.760 1500.000 XREF 1290.3000 IN.

YREF 447.0000 IN.

ZREF 447.0000 IN.

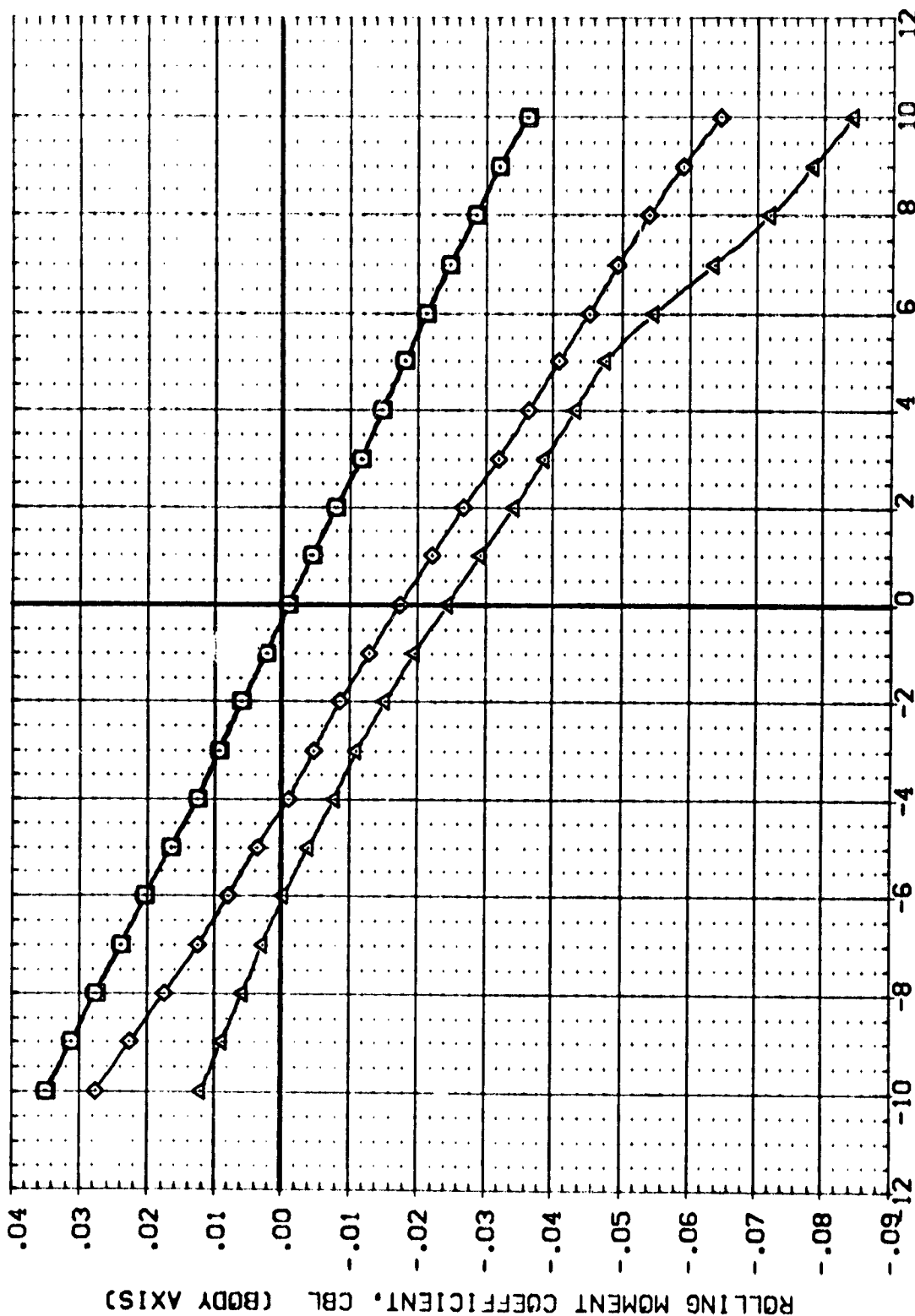
SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON C/ET CHARACTERISTICS, POSITION 20

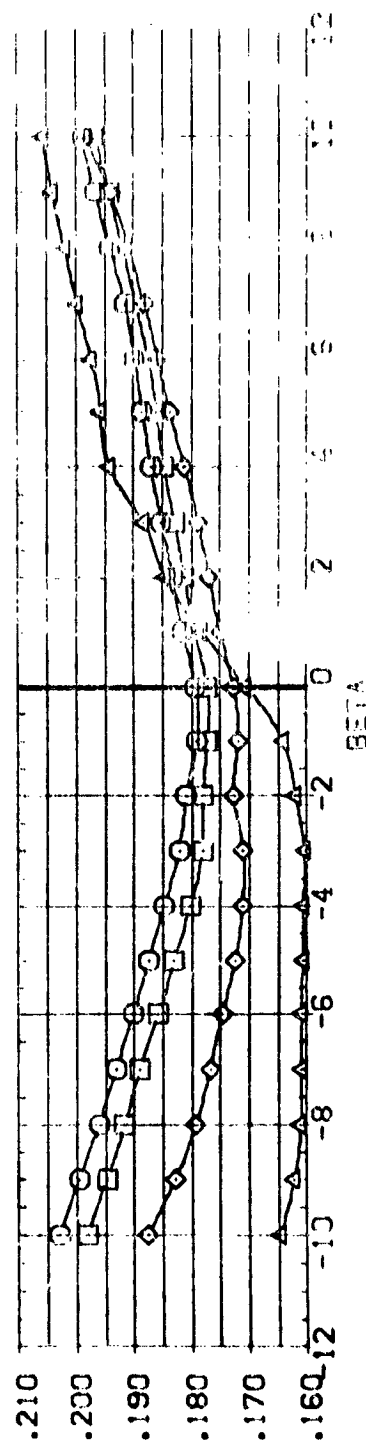
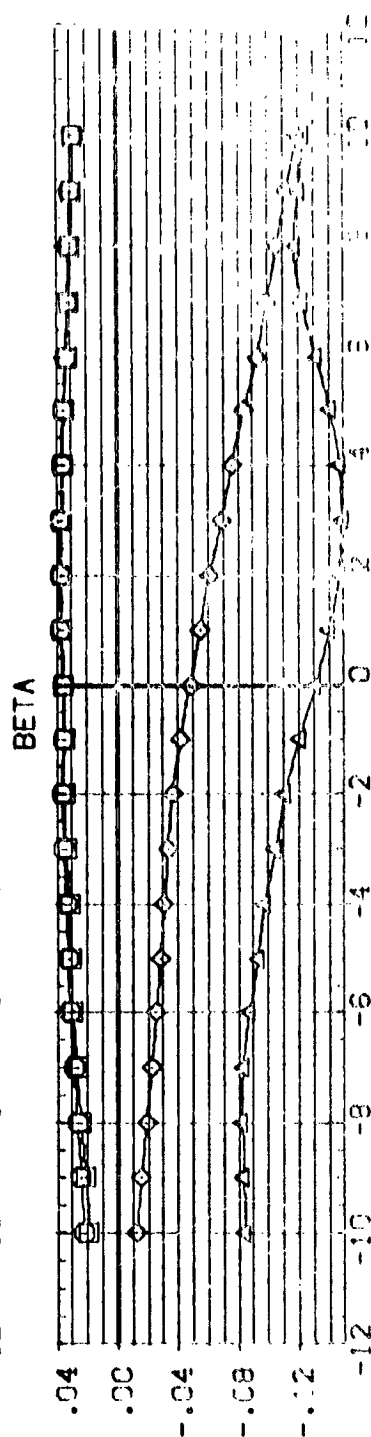
(A) MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
[RT_002]	AEDC VA-422(1A-57): ISOLATED ORB/ET SRB	.300	1.760	.000	.000	SREF 2690.0000 SQ.FT.
[RT_026]	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	750.000	.000	LREF 1290.3000
[RT_028]	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	BREF 1290.3000
[RT_030]	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	MREF 1552.0000
						VREF 447.0000
						ZREF 447.0000
						SCALE 0.0100



EFFECT OF ONE SRB AND SRB PLUME ON O/ET CHARACTER. (POSITION 3)

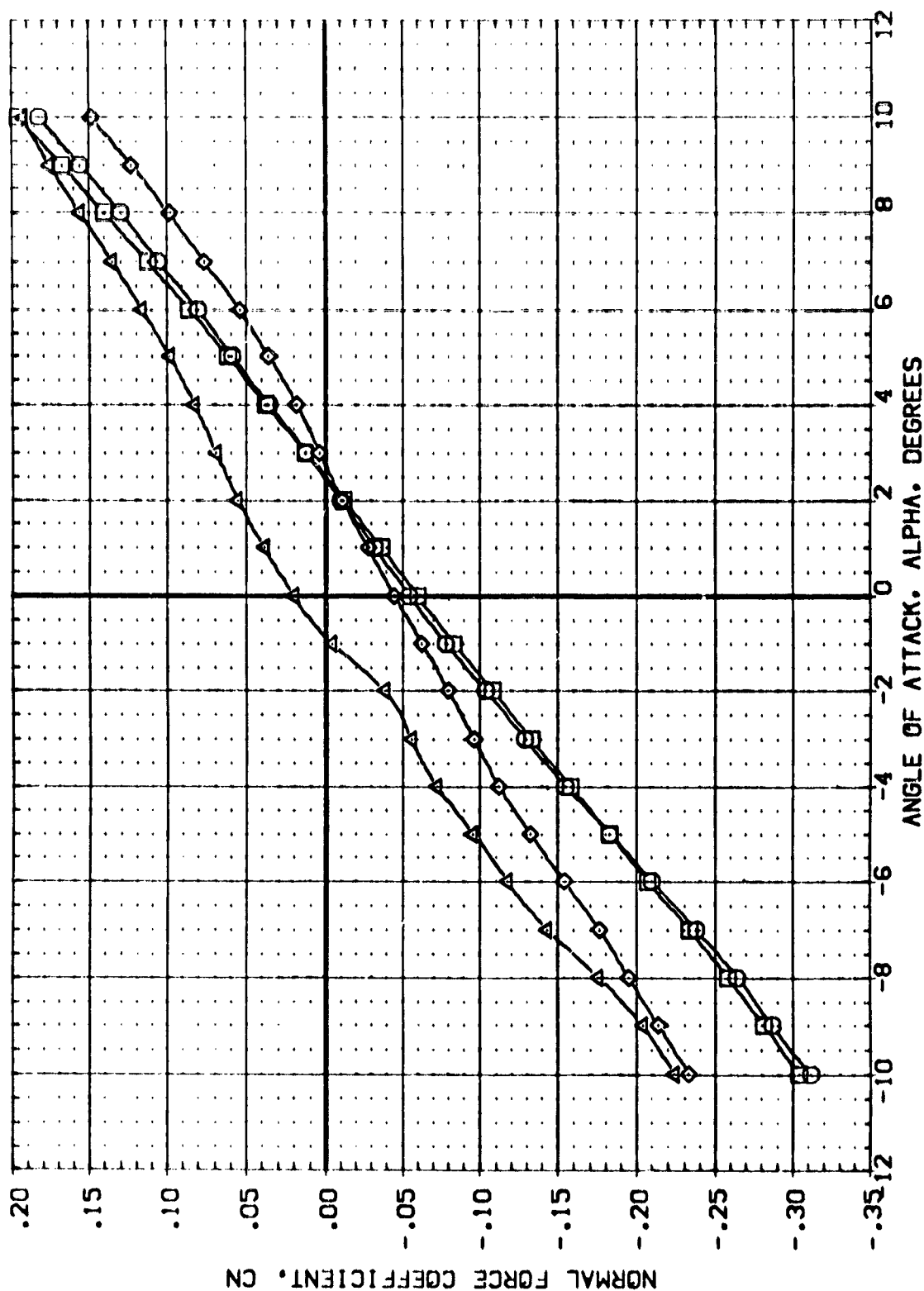
(A)MACH = 4.50

[illegible]

EFFECT OF CUE SRB AND SRB PLUME ON G/E CONTACT. (SEE FIG. 1)

CALMACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RVAL	PT-JET	BETA	REFERENCE INFORMATION
(RTLO31)	AEDC VA-422(A-57); ISOLATED ORB/ET	1.100	1.760	.000	SCAL	2550.0000
(RTLO34)	AEDC VA-422(A-57); ORB/ET V/50TH SRB	1.100	1.760	.000	SCAL	2550.0000
(RTLO36)	AEDC VA-422(A-57); ORB/ET V/50TH SRB	1.100	1.760	.000	SCAL	2550.0000
(RTLO38)	AEDC VA-422(A-57); ORB/ET V/50TH SRB	1.100	1.760	.000	SCAL	2550.0000

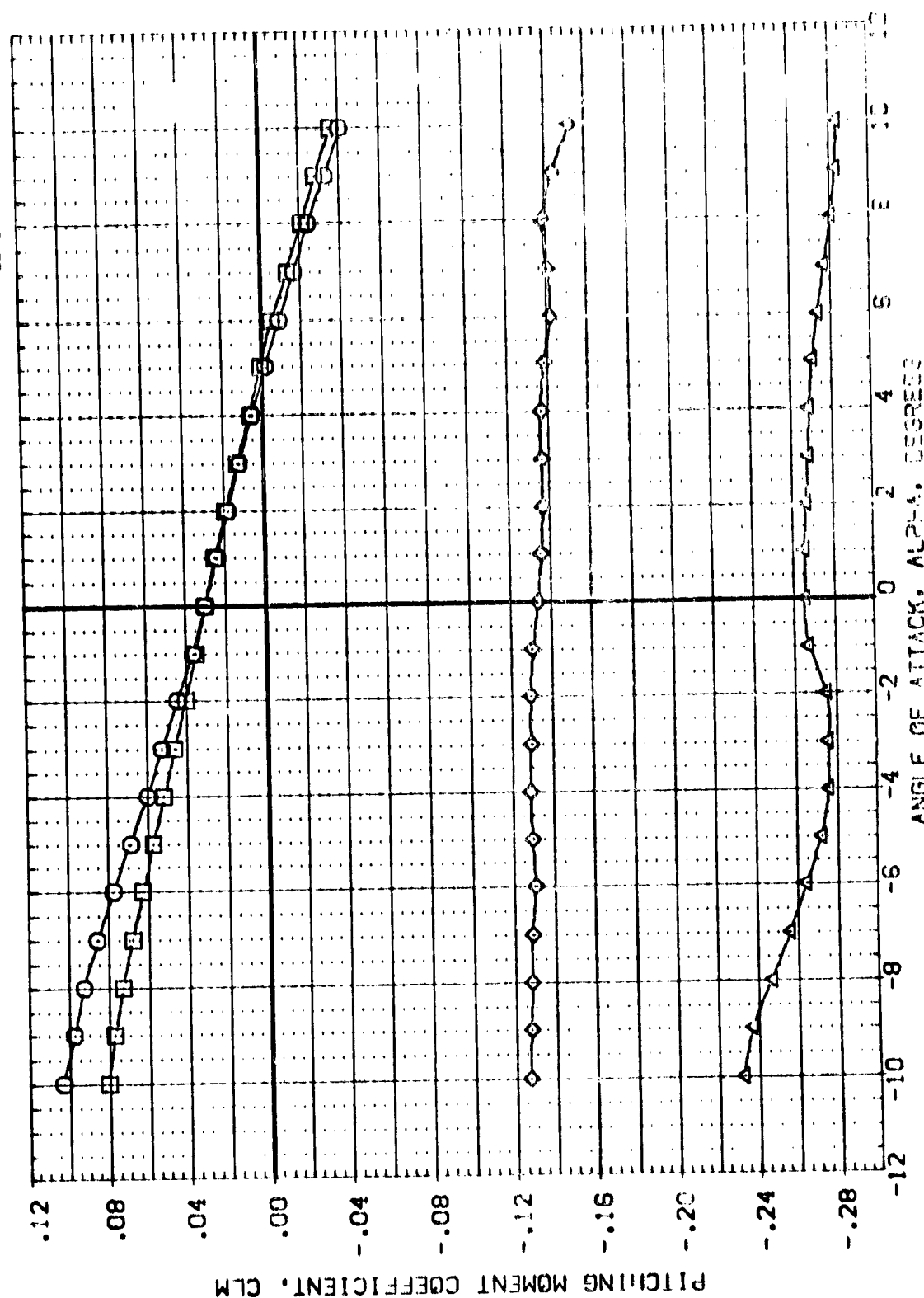


EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

(M)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RT1001) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RT1034) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RT1036) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RT1038) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

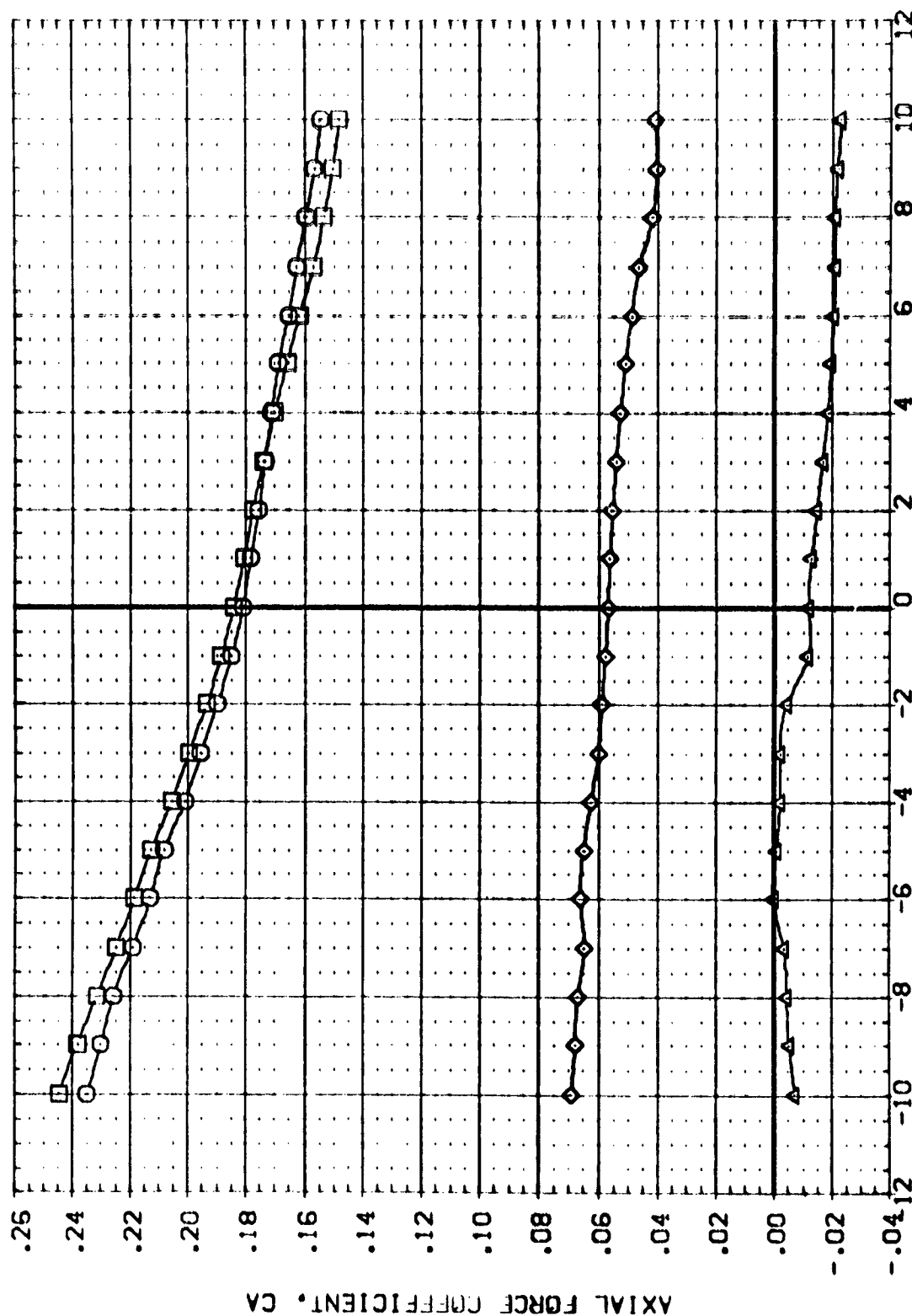
SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 1.100 1.750 .000 SRBF 2690.0000 SC.F.
 1.100 1.750 .000 LREF 1251.3000
 1.100 1.750 .000 PREF 1251.3000
 1.100 1.750 .000 XREF 1251.3000
 1.100 1.750 .000 YREF 1251.3000
 1.100 1.750 .000 ZREF 447.0000
 1.100 1.750 .000 SCALE 1.0000



EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

(A)MACH = 4.50

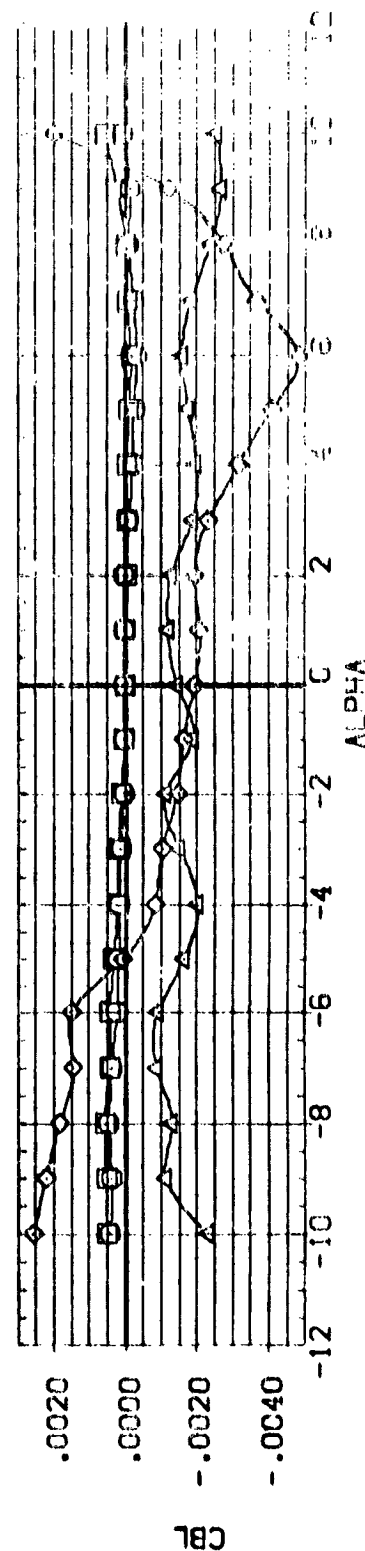
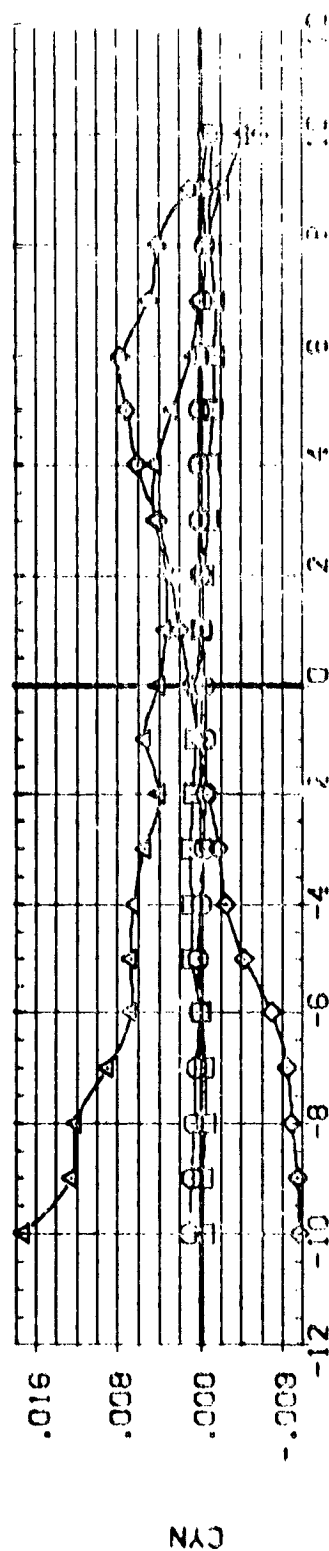
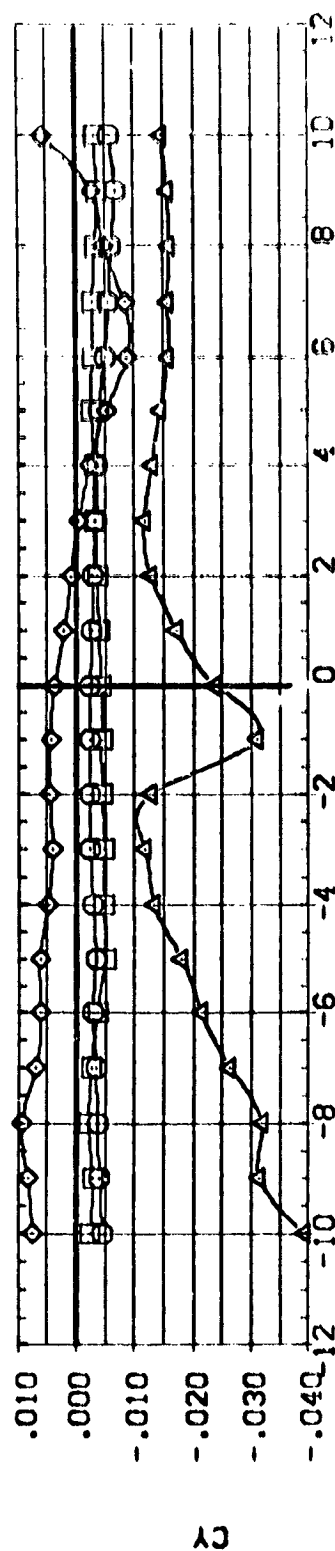
SRBP05	RN/L	PT-JET	BETA	REFERENCE INFORMATION
	1.760		000	300
1:00	1.760	000	000	300
1:00	1.760	750	000	300
1:00	1.760	1500	000	300



EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

$$[A]_{MACH} = 4.50$$

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
1	1	1	1
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97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

[illegible]

EFFECT OF TWO SRB AND SRB PLUMES POSITION IN

$$[A]_{\text{MACH}} = 4.50$$

DATA SET SYMBOL: (RTLO02) (RTLO35) (RTLO37) (RTLO39)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57): ISOLATED SRB/ET AEDC VA-422(1A-57): SRB/ET V/80TH SRB AEDC VA-422(1A-57): SRB/ET V/80TH SRB AEDC VA-422(1A-57): SRB/ET V/80TH SRB

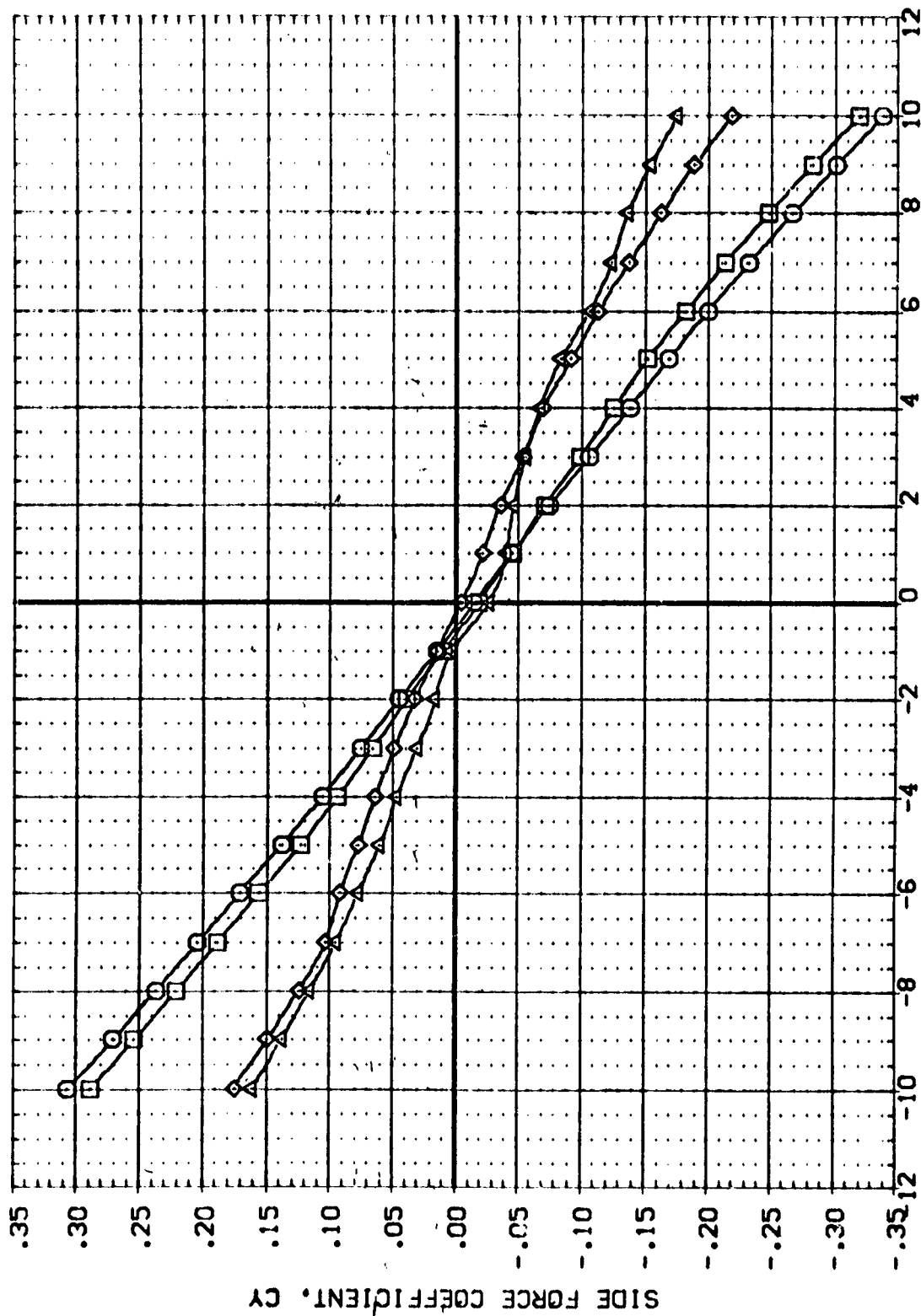
SRB POS: 1.100 1.100 1.100

RVL: 1.750 1.750 1.750

PT-JET: .000 750.000 500.000

ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF 2650.0000 SQ. FT. LREF 2650.0000 IN. BREF 2650.0000 IN. XT XPROP 252.0000 IN. YPROP 252.0000 IN. ZPROP 447.0000 IN. Z SCALE 447.0000

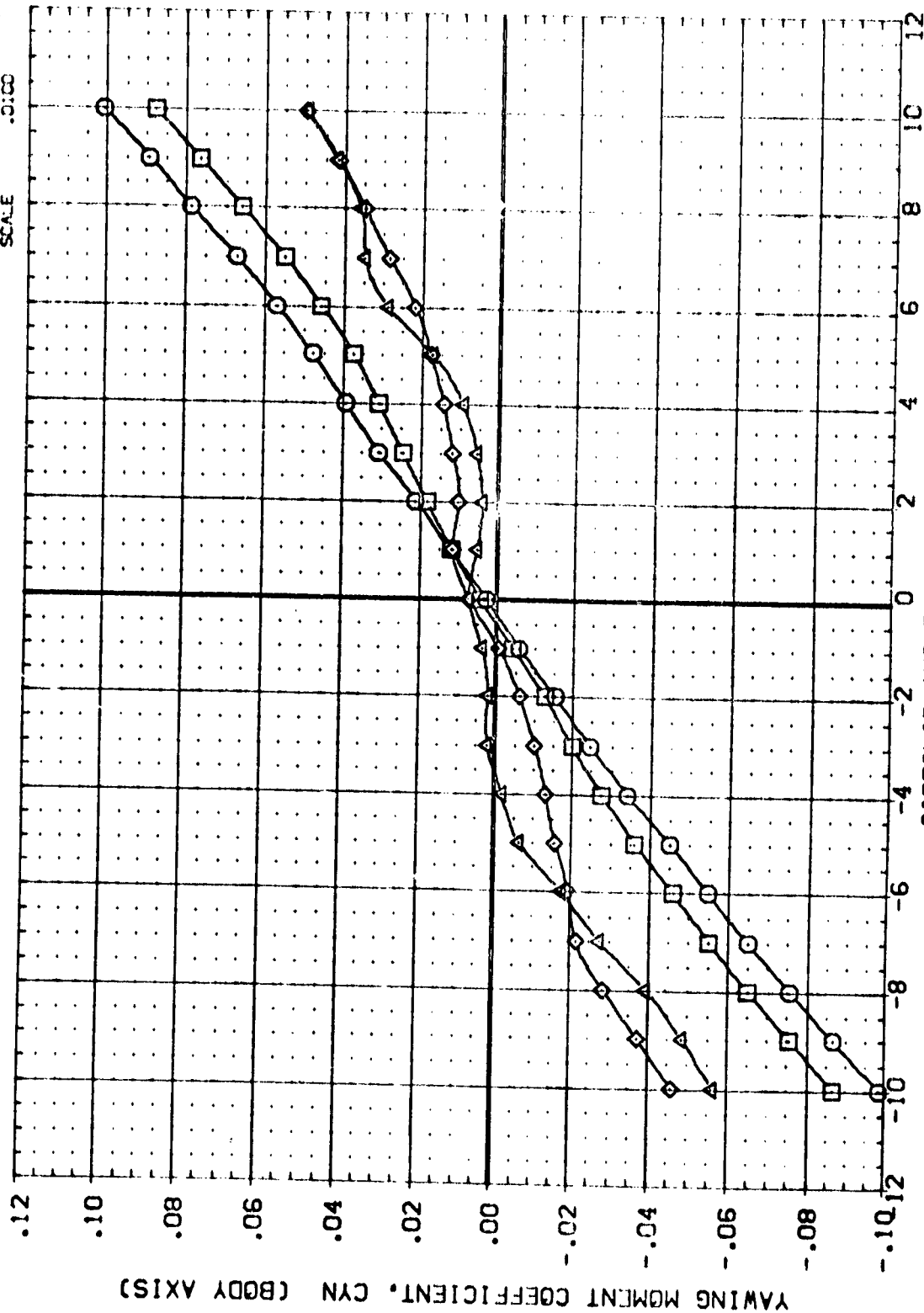


EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(A-57), ISOLATED ORB/ET
 (RTLO35) AEDC VA-422(A-57), ORB/ET V/BOOTH SRB
 (RTLO37) AEDC VA-422(A-57), ORB/ET V/BOOTH SRB
 (RTLO39) AEDC VA-422(A-57), ORB/ET V/BOOTH SRB

SRBPOS R/VL PT-VET ALPHA REFERENCE INFORMATION
 1.100 1.760 .000 SREF 2690.0000 SQ.FT.
 1.100 1.760 .000 LREF 1290.3000 IN.
 1.100 1.760 750.000 BREF 1290.3000 IN.
 1.100 1.760 1500.000 XMRP 1052.0000 IN. XT
 YMRP .0000 IN. YT
 ZMRP .0000 IN. ZT
 SCALE 447.0000



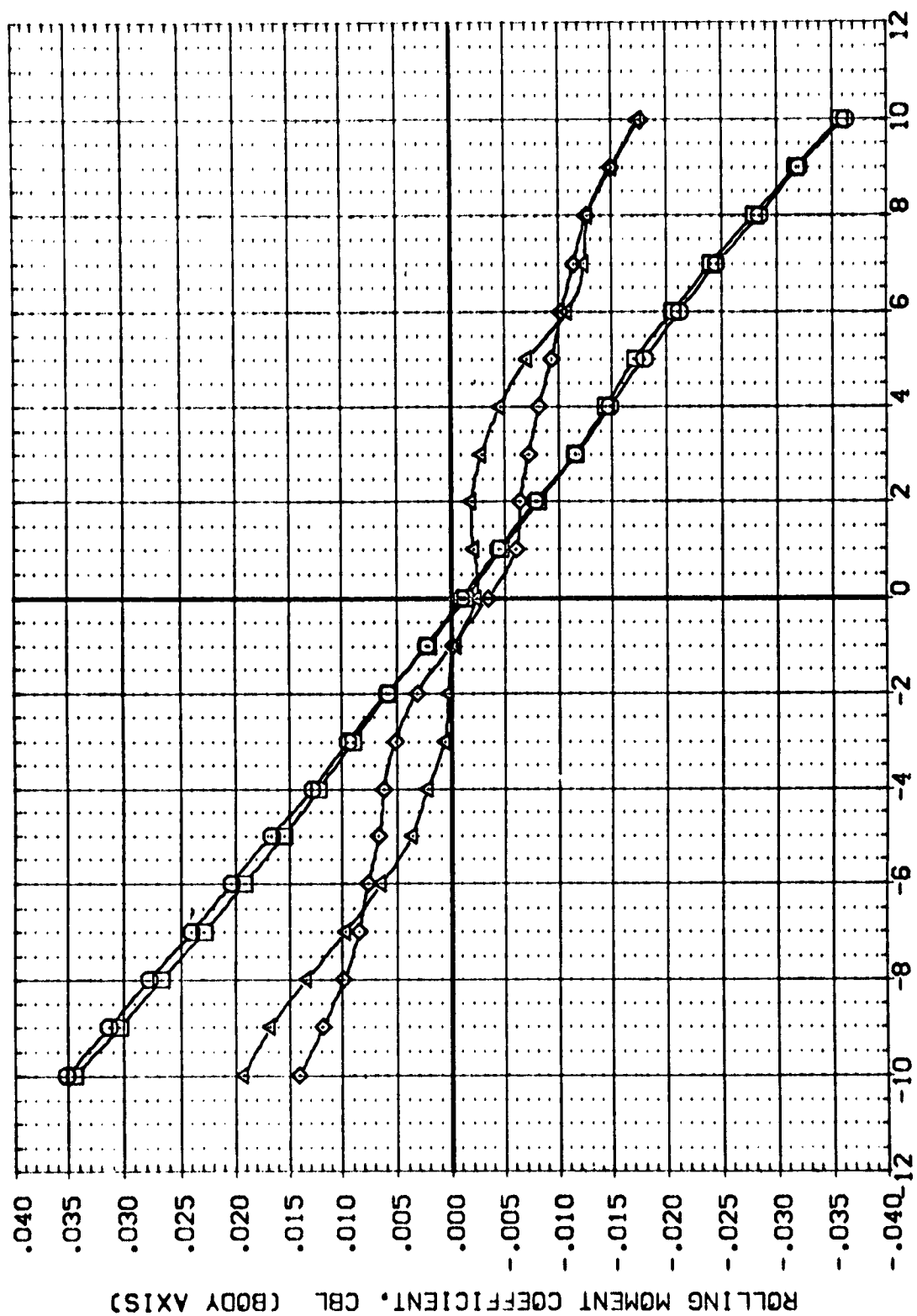
EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLOC2) AEDC VA-422(A-57); ISOLATED ORB/ET
 (RTLOC3) AEDC VA-422(A-57); ORB/ET V/BOTH SRB
 (RTLOC7) AEDC VA-422(A-57); ORB/ET V/BOTH SRB
 (RTLOC9) AEDC VA-422(A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
 1.100 .000
 1.100 75C.000
 1.100 150C.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.0000
 BREF 1290.0000
 XREF 1290.0000
 YREF 1290.0000
 ZREF 447.0000
 SCALE .0100



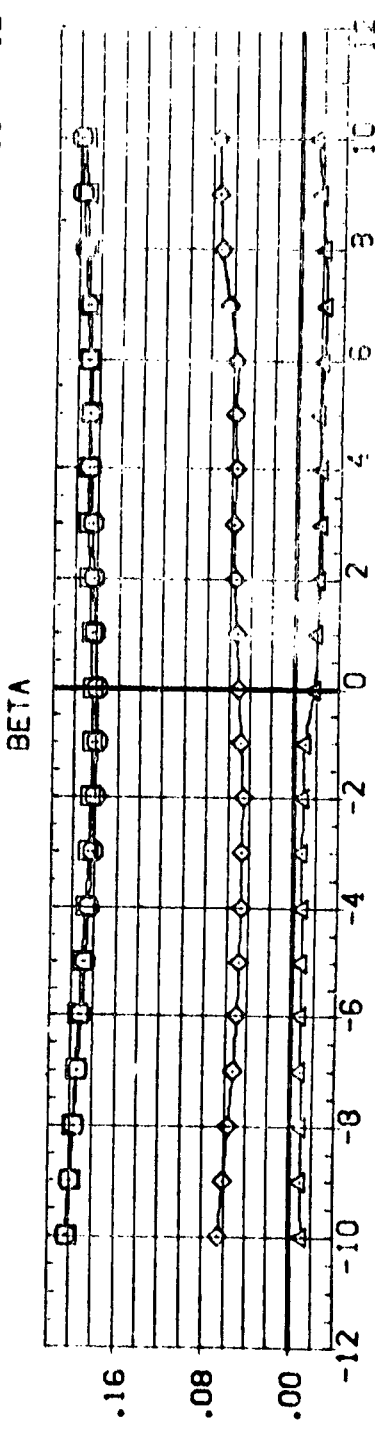
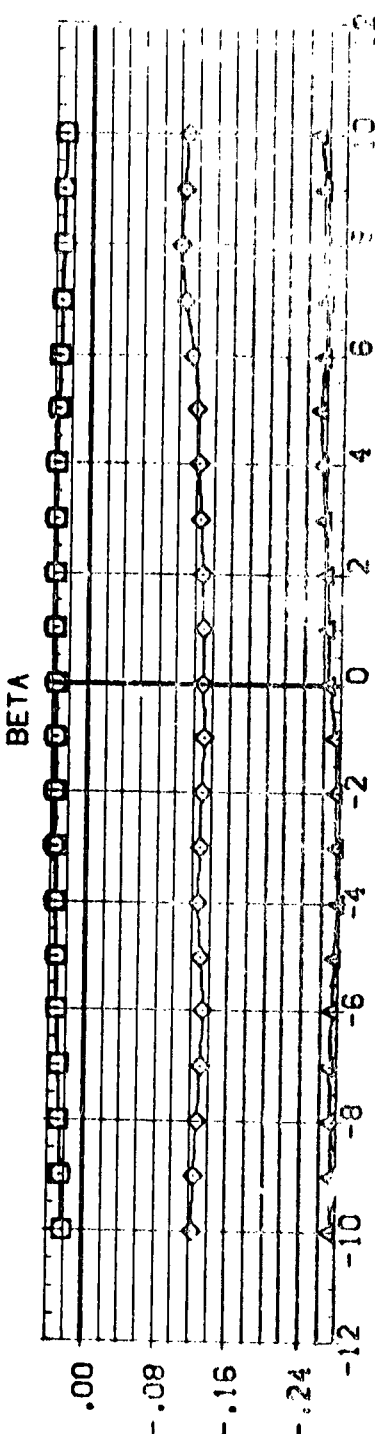
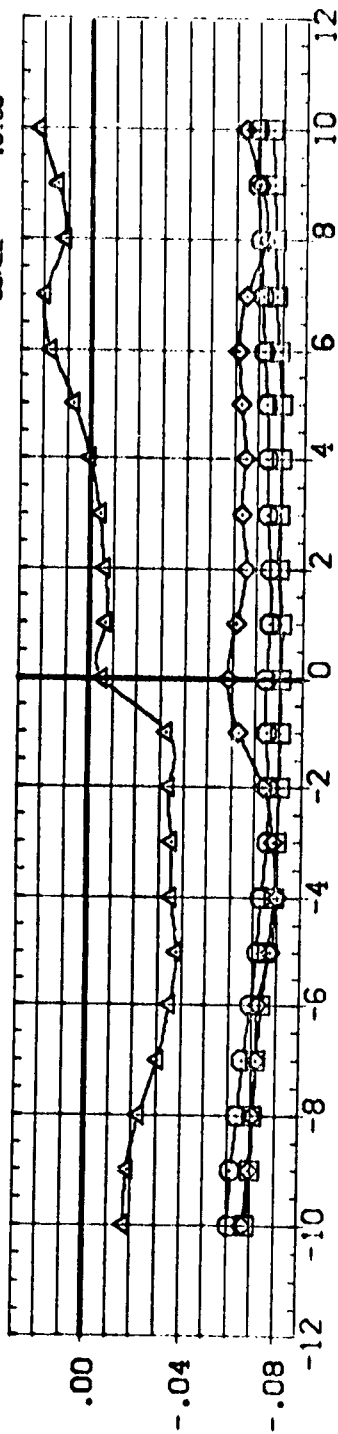
SIDELIP ANGLE, BETA, DEGREES

EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLOC2) AEDC VA-422(1A-57), ISOLATED ORB/ET
 (RTLOC3) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 (RTLOC4) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 (RTLOC5) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRBPOS RNVL PT-JET ALPHA REFERENCE INFORMATION
 1.100 1.760 .000 SRREF 2690.0000 50.57
 1.100 1.760 .000 LRREF 1290.3000 N.
 1.100 1.760 750.000 BRREF 1290.3000 N.
 1.100 1.760 1500.000 XMRP 1052.0000 N.
 YMRP .0000 N.
 ZMRP .0000 N.
 SCALE 447.0000 N.
 .0100 N.



EFFECT OF TWO SRB AND SRB PLUMES (POSITION 1)

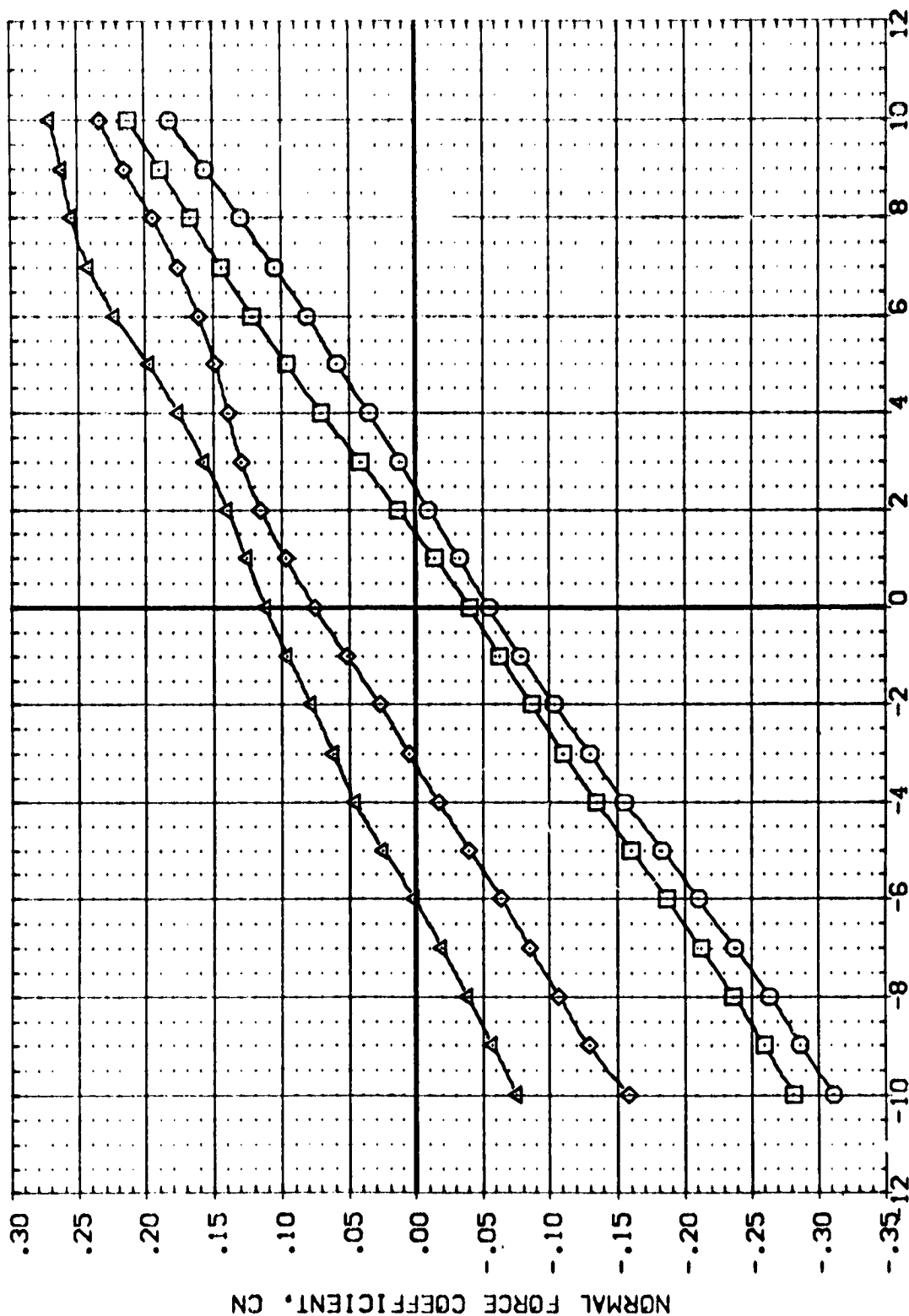
(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R1)LOC1) AEDC VA-422(A-57), ISOLATED ORB/ET
 (R1)LOC45) AEDC VA-422(A-57), CRB/ET V/80TH SRB
 (R1)LOC47) AEDC VA-422(A-57), CRB/ET V/80TH SRB
 (R1)LOC49) AEDC VA-422(A-57), CRB/ET V/80TH SRB

SRBPOS RVAL PT-JET BETA
 2.200 1.750 .000
 2.200 1.750 750.000
 2.200 1.750 1500.000

REFERENCE INFORMATION
 SREF 2650.000 50.00
 LREF 1250.000 10.00
 BREF 1250.000 10.00
 XREF 1250.000 10.00
 YREF 1250.000 10.00
 ZREF 447.000 10.00
 SCALE .0100

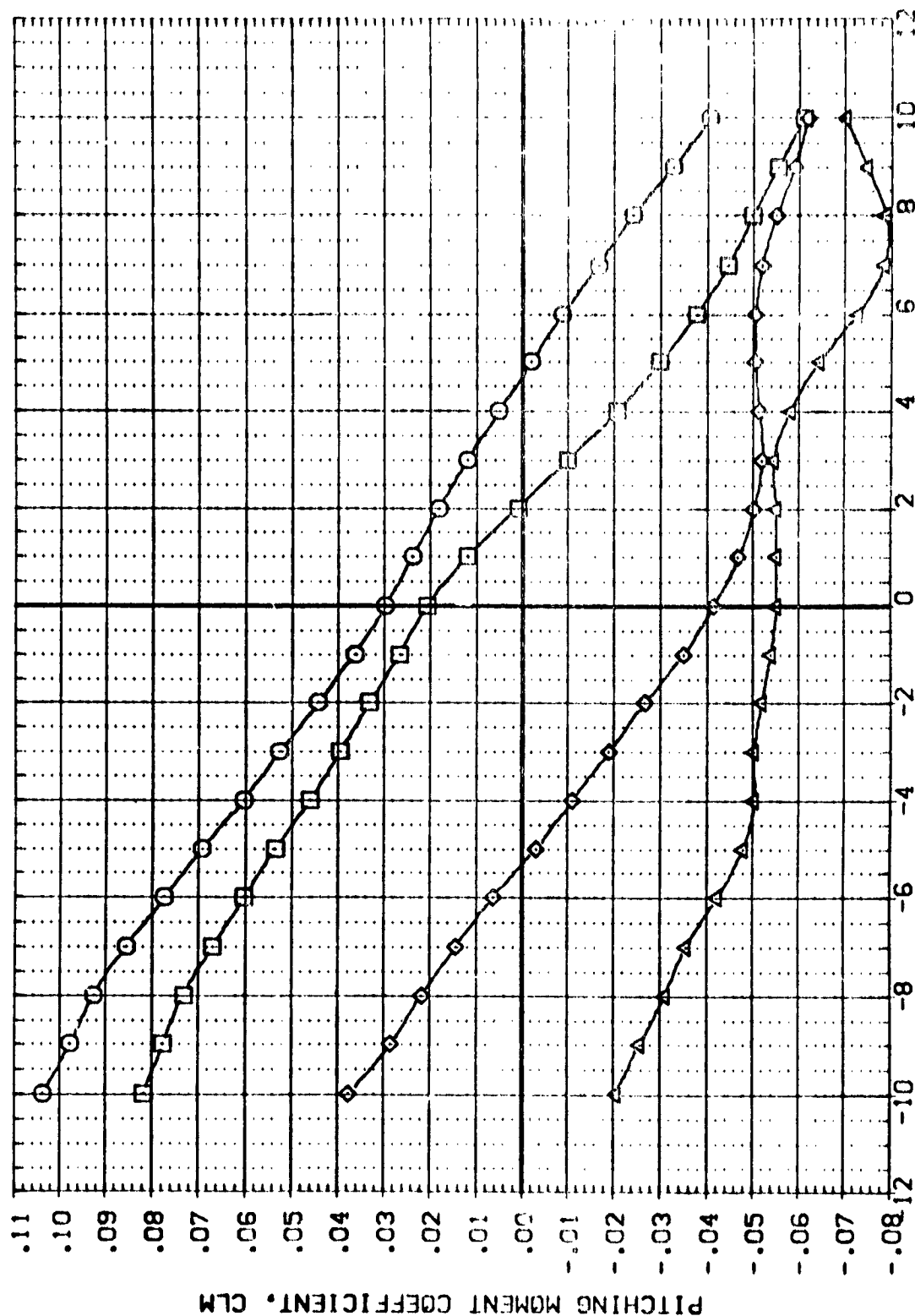


EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

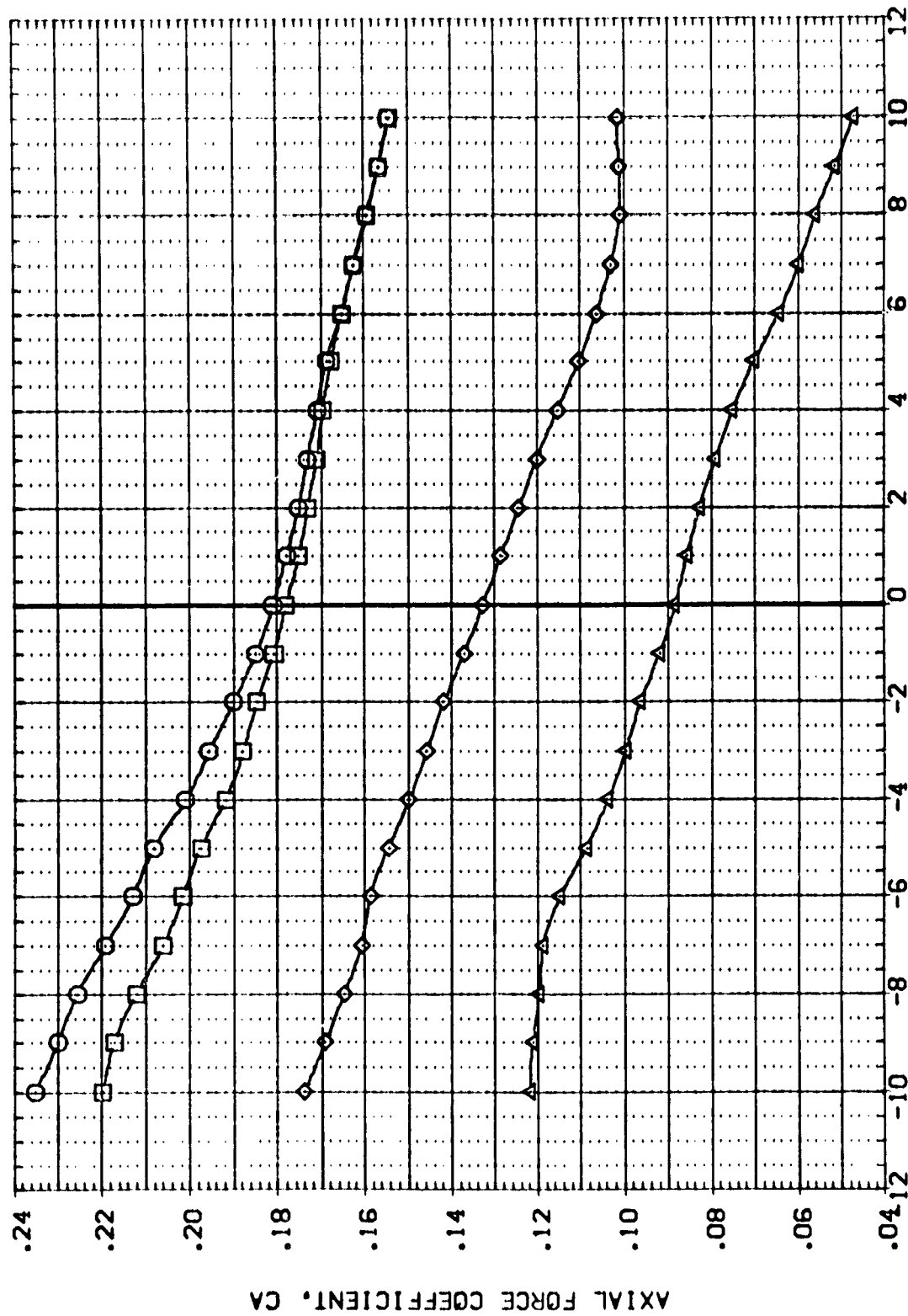
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO01) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTLO45) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RTLO47) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RTLO49) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 2.200 1.760 .000 SREF 2690.0000 SO.FT.
 2.200 1.760 .000 LREF 1290.0000
 2.200 1.760 750.000 BREF 1290.0000
 XGRP 1552.0000 XT
 YGRP 447.0000 YT
 ZGRP 447.0000 ZT
 SCALE 0.100



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTERISTICS (POSITION 1)
 (A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(RT-001)	AEDC VA-422(1A-57); ISOLATED ORB/ET	2.200	1.760	.000	.000	SREF 2500.0000 SQ.FT.
(RT-045)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.200	1.760	.000	.000	L-REF 1250.3000
(RT-047)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.200	1.760	750.000	.000	BREF 1250.3000
(RT-049)	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.200	1.760	1500.000	.000	X-REF 1250.3000
						Y-REF 1250.3000
						Z-REF 1250.3000
						SCALE 447.0000

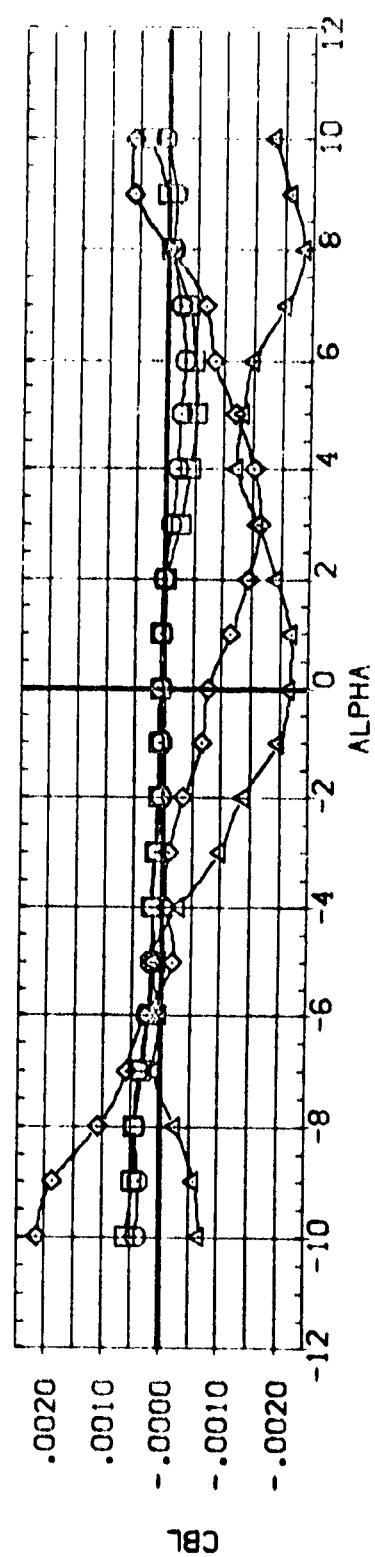
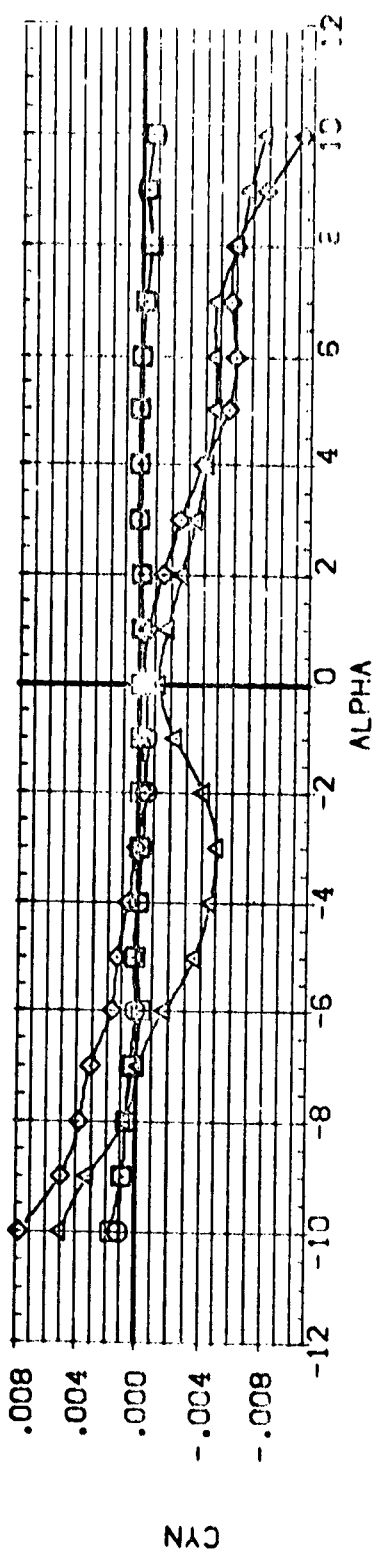
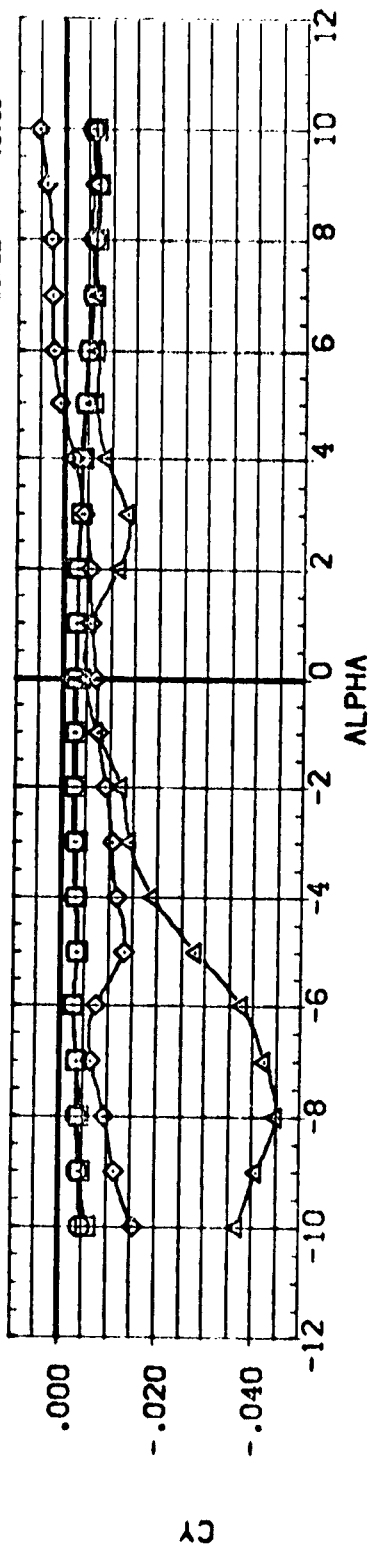


EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: AEDC VA-422 (A-57): ISOLATED SRB/ET; AEDC VA-422 (A-57): SRB/ET V/BOTH SRB; AEDC VA-422 (A-57): SRB/ET V/BOTH SRB; AEDC VA-422 (A-57): SRB/ET V/BOTH SRB

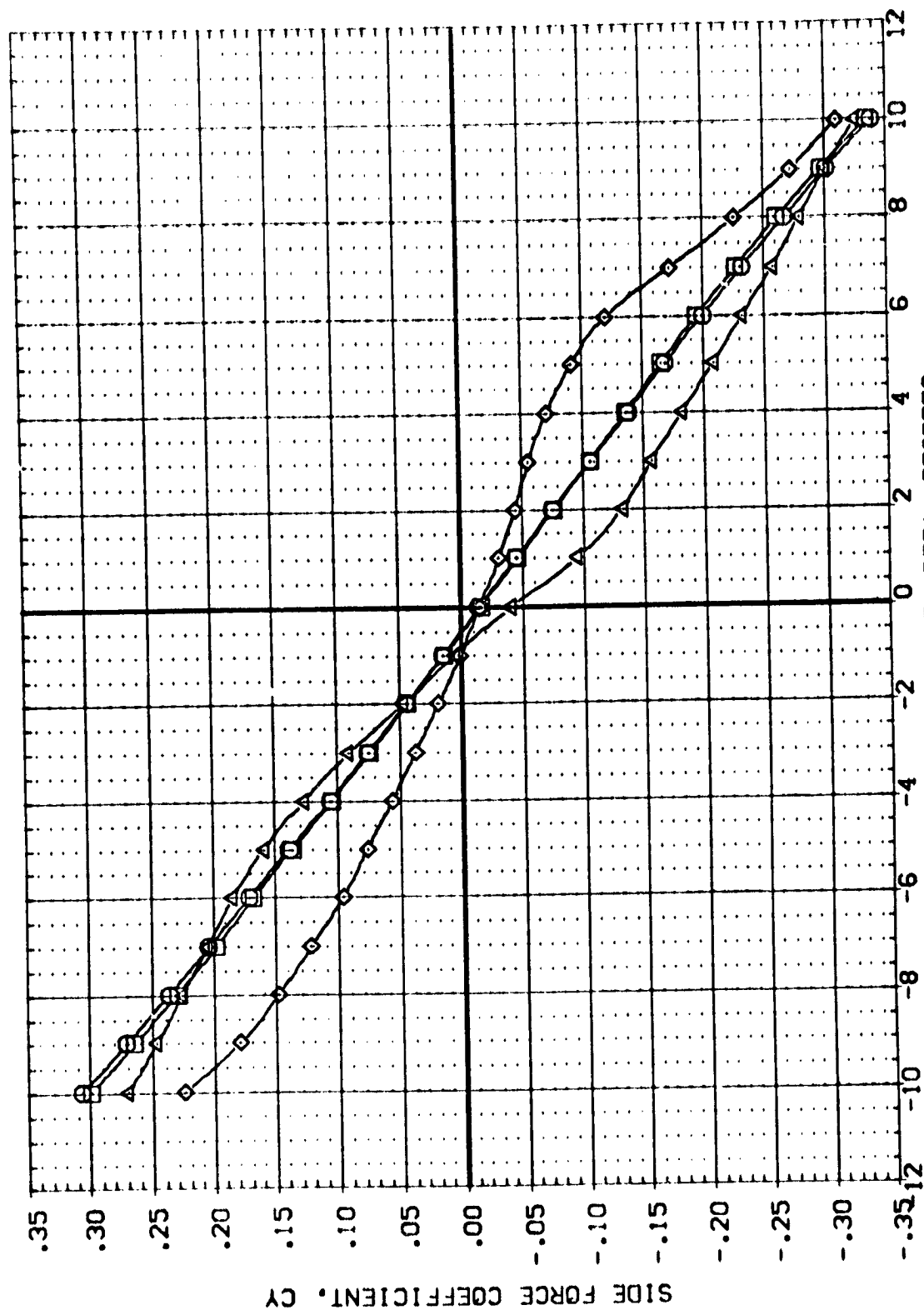
SRBPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
2.200	1.760	.000	.000	SRF 2650.0000
2.200	1.760	.000	.000	LREF 1.000000
2.200	1.760	.000	.000	BREF 1.000000
2.200	1.760	.000	.000	XTRP 1.000000
				ZTRP 1.000000
				SCALE 447.0000
				SO. FT. 1.000000
				N. X. 1.000000
				N. Y. 1.000000
				N. Z. 1.000000



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 2)

(A) $MACH = 4.50$

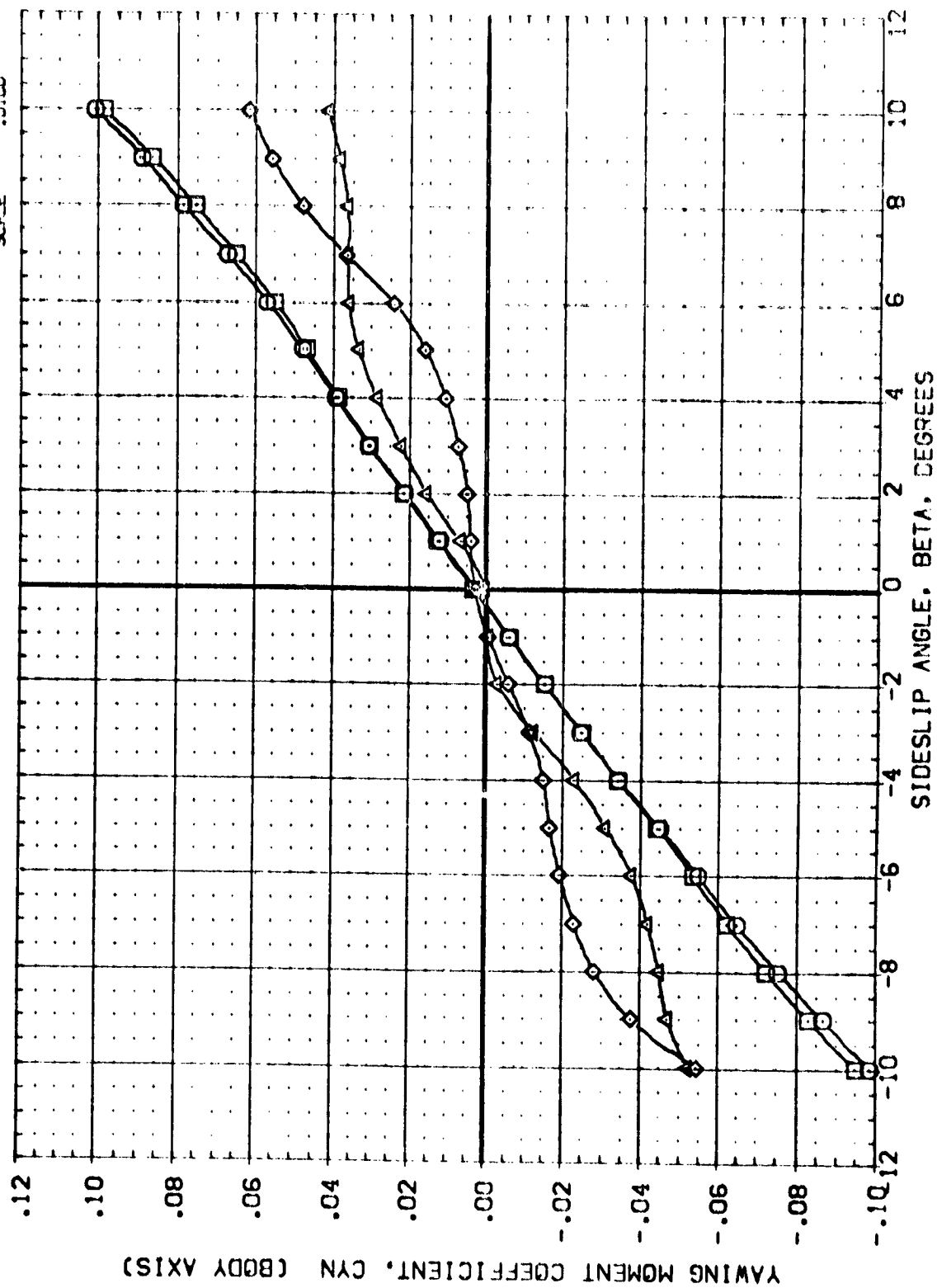
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
(RT-022)	AEDC VA-422(A-57); ISOLATED ORB/ET	2.200	1.760		.000	SREF 2680.0000
(RT-046)	AEDC VA-422(A-57); ORB/ET V/80TH SRB	2.200	1.760	.000	.000	LREF 1280.0000
(RT-048)	AEDC VA-422(A-57); ORB/ET V/80TH SRB	2.200	1.760	750.000	.000	BREF 1280.0000
(RT-050)	AEDC VA-422(A-57); ORB/ET V/80TH SRB	2.200	1.760	1500.000	.000	XREF 1280.0000
						WREF 1280.0000
						YREF 1280.0000
						ZREF 1280.0000
						SCALE 447.0000



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

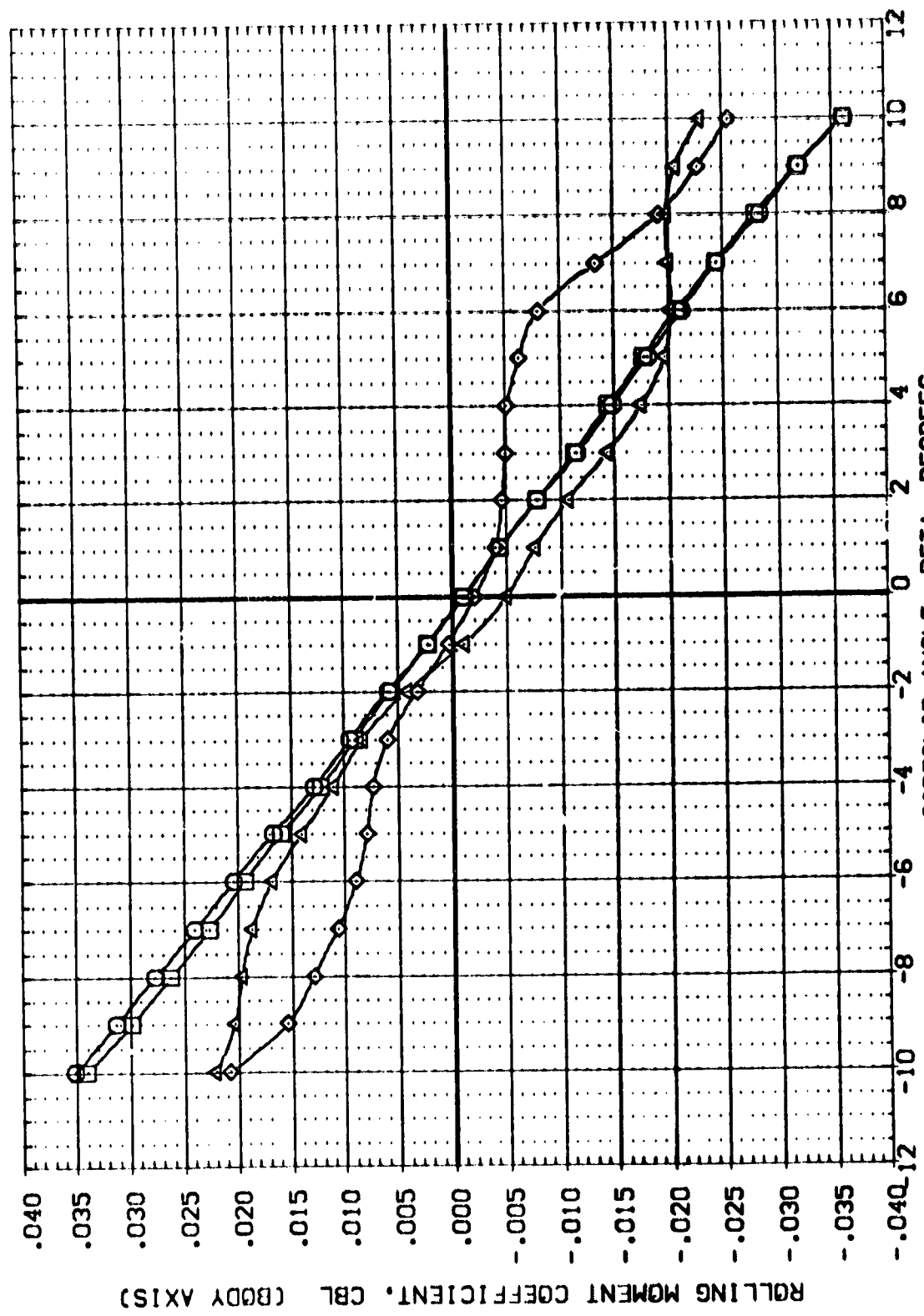
SRBPOS	RNVL	PT-JET	ALPHA	REFERENCE INFORMATION
2.203	1.760	.000	.000	SREF 7690.0000
2.230	1.760	.000	.000	REF 1290.0000
2.200	1.760	750.000	.000	BREF 1200.0000
	1.760	1500.000	.000	XREF 1052.0000
				YREF 1000.0000
				ZREF 467.0000
				SCALE 1.0000



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACT. (POSITION 2)

$$C(A)MACH = 4.50$$

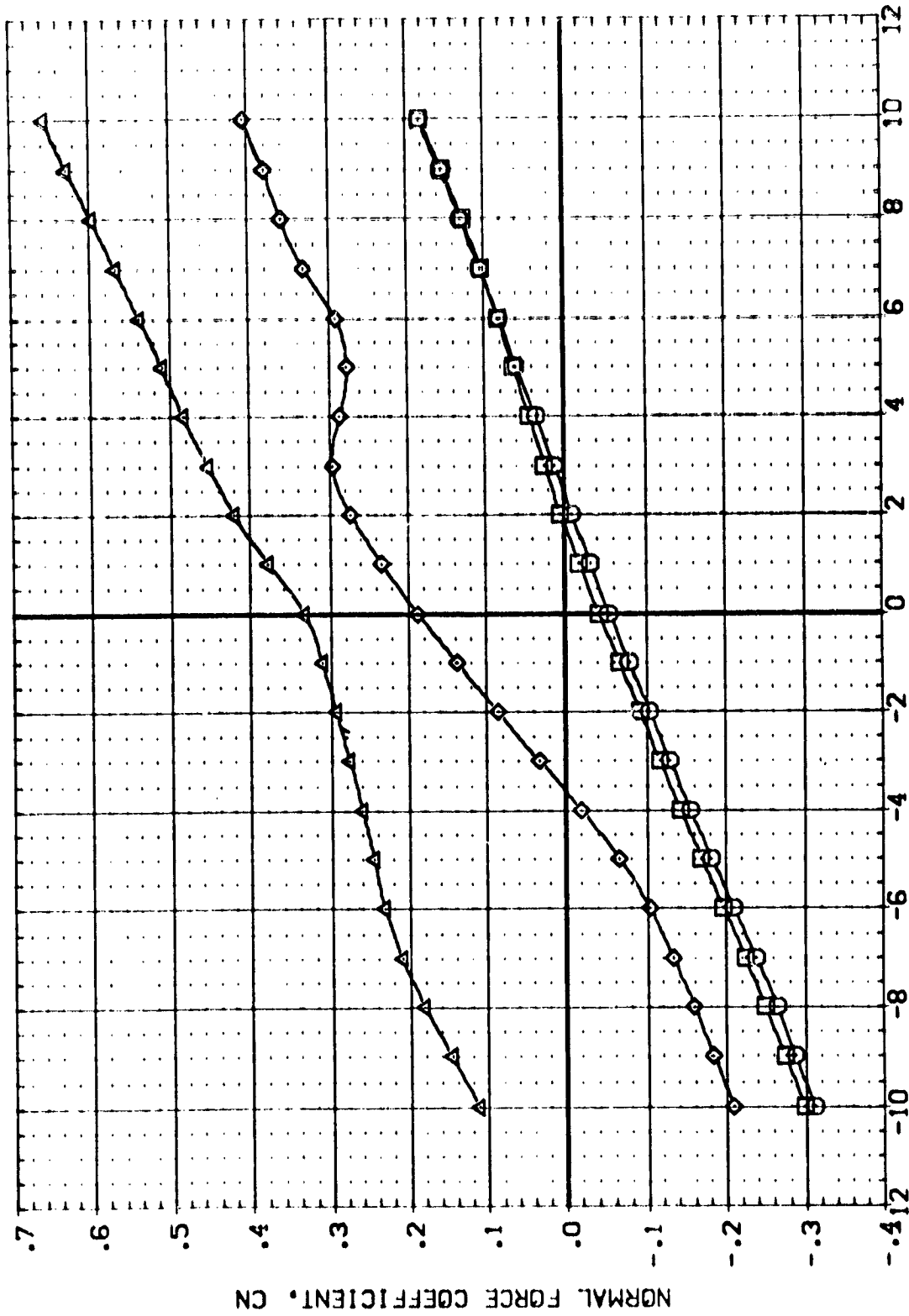
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
(RT)0021	AEDC VA-422(1A-57): ISOLATED CRB/ET	2.200	1.760	.000	SRB	2650.0000 SQ.FT.
(RT)0461	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.200	1.760	.000	SRB	1291.3000
(RT)0481	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.200	1.760	750.000	SRB	1291.3000
(RT)0501	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.200	1.760	1500.000	SRB	1291.3000
					W30	447.0000
					ZW30	447.0000
					SCALE	0.0100



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 2)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(PT-001)	AEDC VA-422(A-57); ISOLATED SRB/ET	3.300	1.750	0.000	0.000	1550.0000 SQ.FT.
(PT-005)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	3.300	1.750	0.000	0.000	1250.3000
(PT-008)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	3.300	1.750	750.000	0.000	1250.3000
(PT-060)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	3.300	1.750	1500.000	0.000	1250.3000
						447.0000
						SCALE



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 3)

(A) MACH = 4.50

RTLO01
RTLO56
RTLO58
RTLO67

VA-422(A-57): ISOLATED ORB/ET
VA-422(A-57): ORB/ET V/BOTH SRB
VA-422(A-57): ORB/ET V/BOTH SRB
VA-422(A-57): ORB/ET V/BOTH SRB
VA-422(A-57): ORB/ET V/BOTH SRB

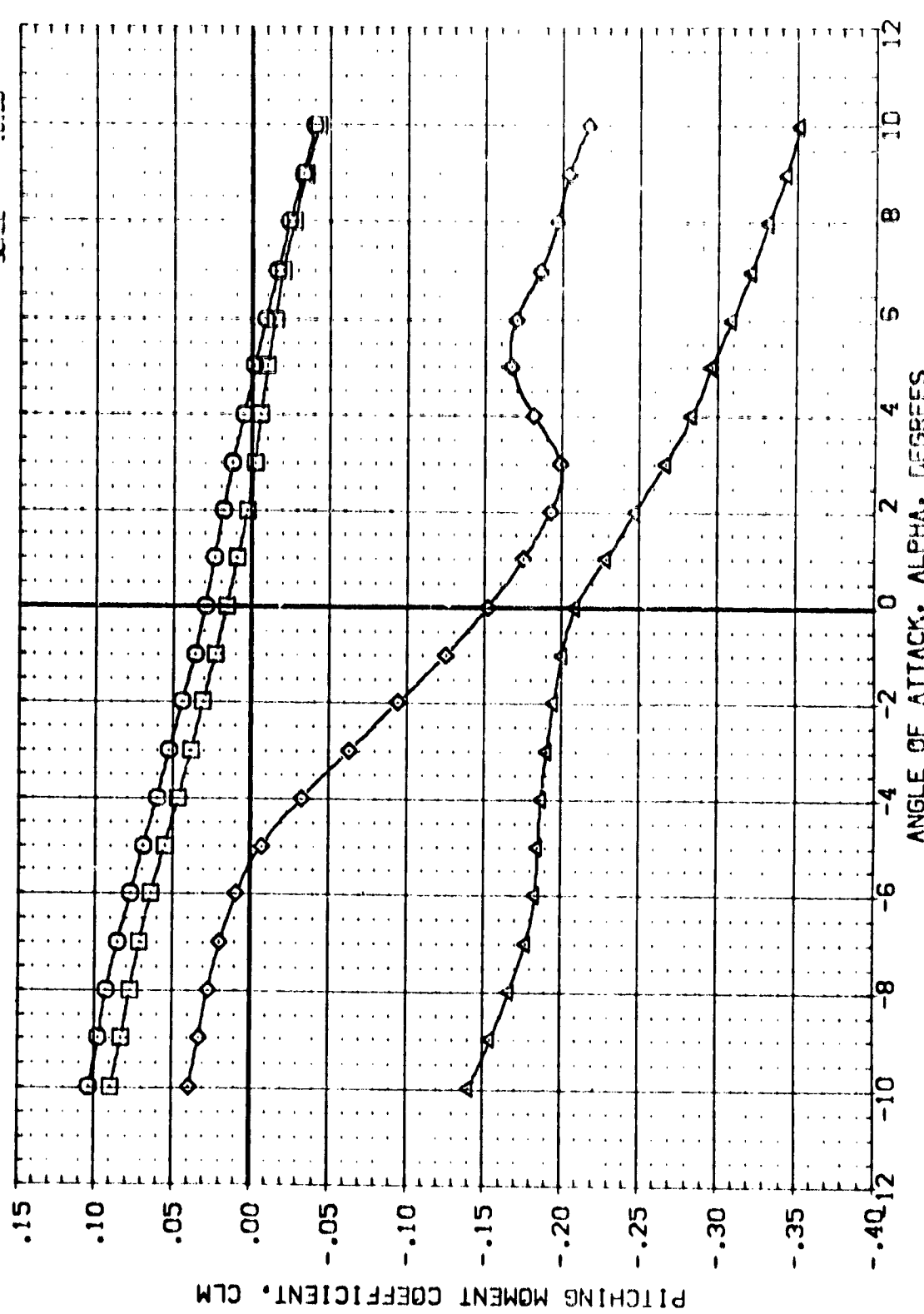
SOBOS

1.760	0.000
1.760	750.000
1.760	1500.000

BETA

0806
0807
0808
0809
0810

NOTES

[illegible]

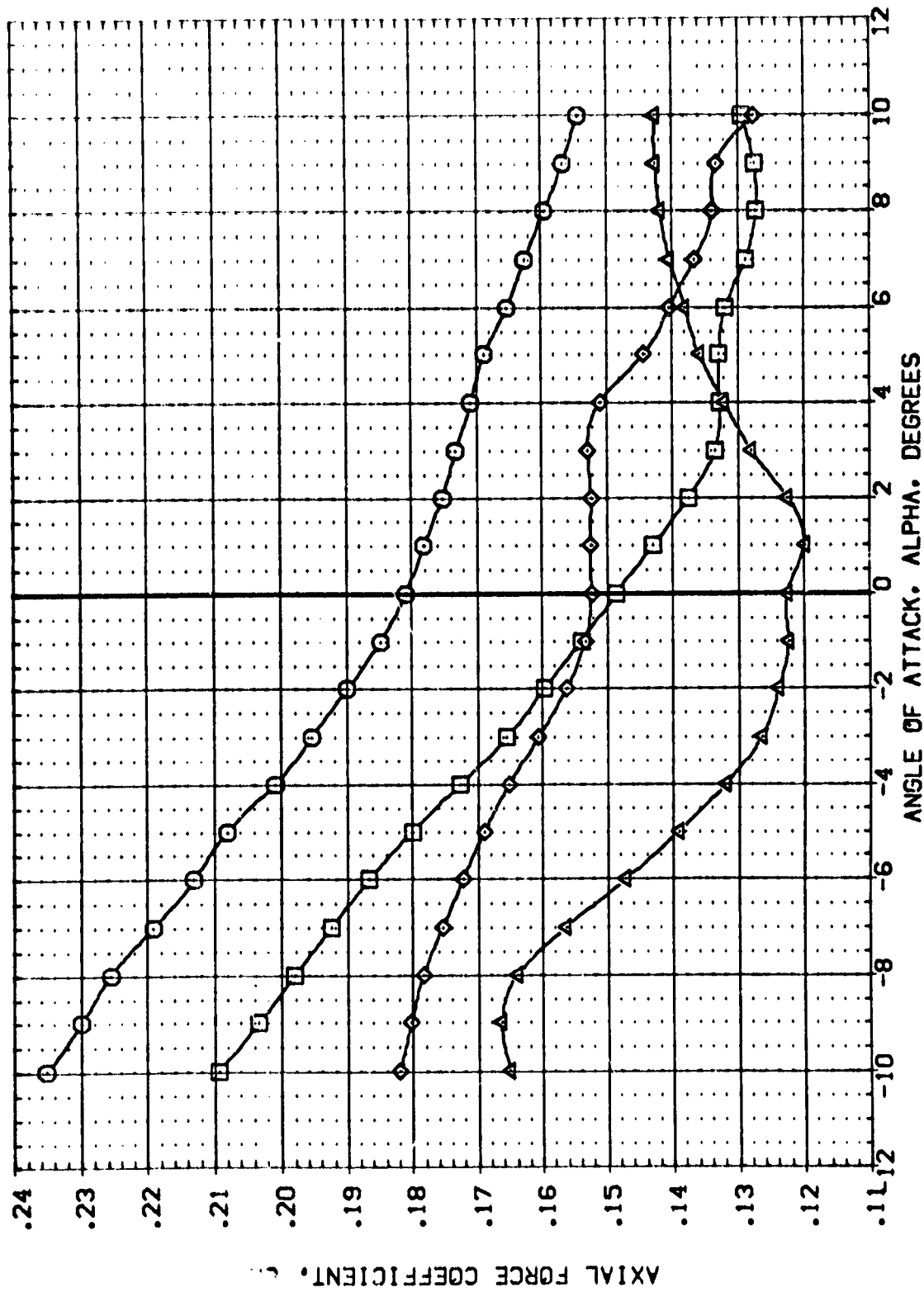
EFFECT OF TWO SRB AND SRB PLUMES ON C/EI CHARACTERISTICS

ALMACH = 4-50

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C
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re

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	SRB POS	RVL	PT-JET	BETA	REFERENCE INFORMATION
(RTLO01)	AEDC VA-422(A-57)	ISOLATED ORB/ET	3.300	1.760	.000	.000	SREF 2699.0000
(RTLO56)	AEDC VA-422(A-57)	ORB/ET V/BOTH SRB	3.300	1.760	.000	.000	LREF 1290.3000
(RTLO58)	AEDC VA-422(A-57)	ORB/ET V/BOTH SRB	3.300	1.760	.000	.000	SREF 1290.3000
(RTLO60)	AEDC VA-422(A-57)	ORB/ET V/BOTH SRB	3.300	1.760	.000	.000	XREF 1290.3000
							YREF 1290.3000
							ZREF 447.0000
							SCALE .0100



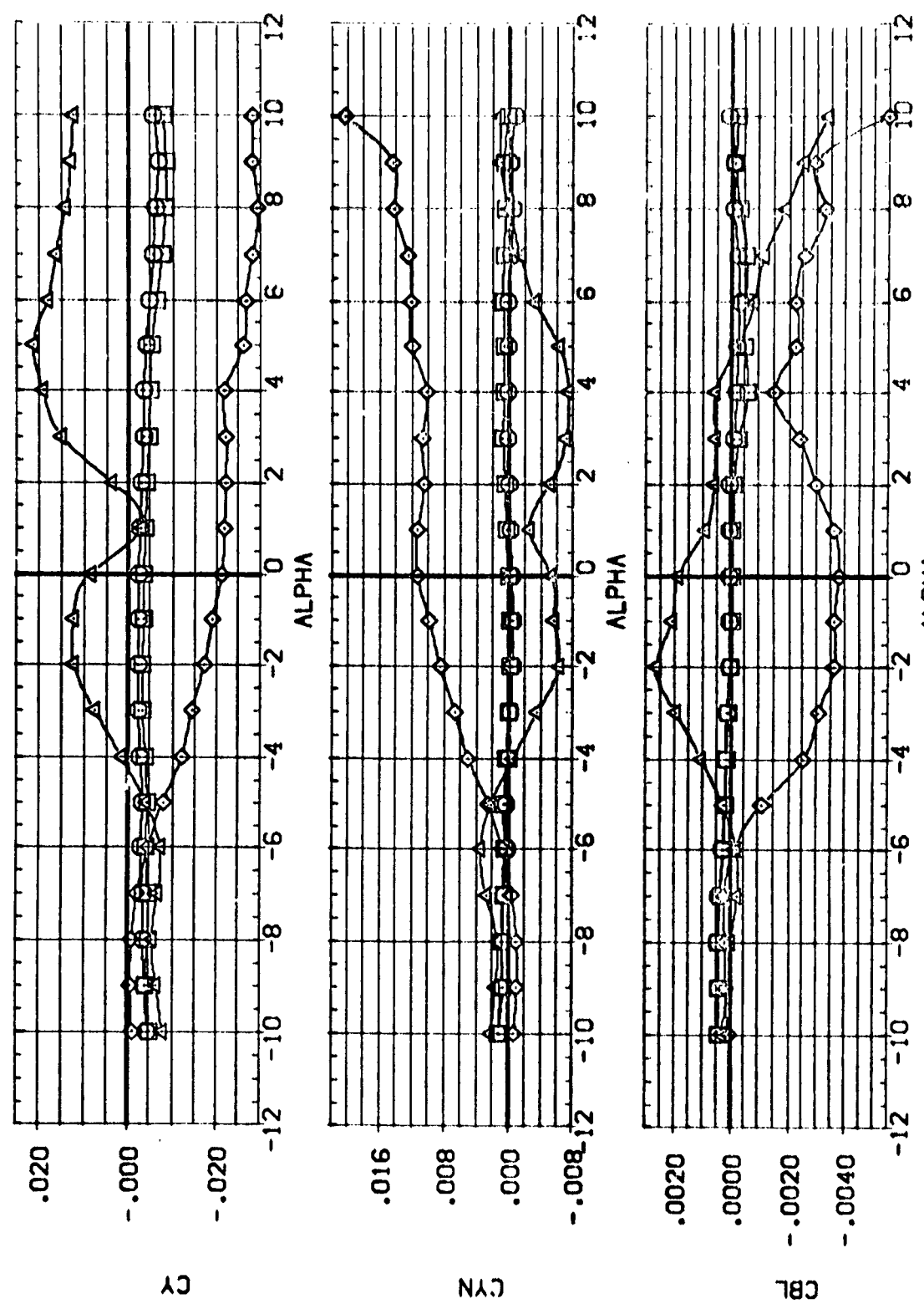
EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 3)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRB POS RV/L PT-JET BETA REFERENCE INFORMATION

(RTLO01)	AEDC VA-422(1A-57). ISOLATED ORB/ET	3.300	1.760		.000	SREF 2690.0000
(RTLOS6)	AEDC VA-422(1A-57). ORB/ET V/BOTH SRB	3.300	1.760	.000	.000	LREF 1290.3000
(RTLOS8)	AEDC VA-422(1A-57). ORB/ET V/BOTH SRB	3.300	1.760	750.000	.000	SREF 1290.3000
(RTLOS9)	AEDC VA-422(1A-57). ORB/ET V/BOTH SRB	3.300	1.760	1500.000	.000	XREF 1052.0000
						WREF 1000.0000
						ZREF 447.0000
						SCALE .0100

SO. FT. IN. IN. IN. IN. IN. IN. IN.



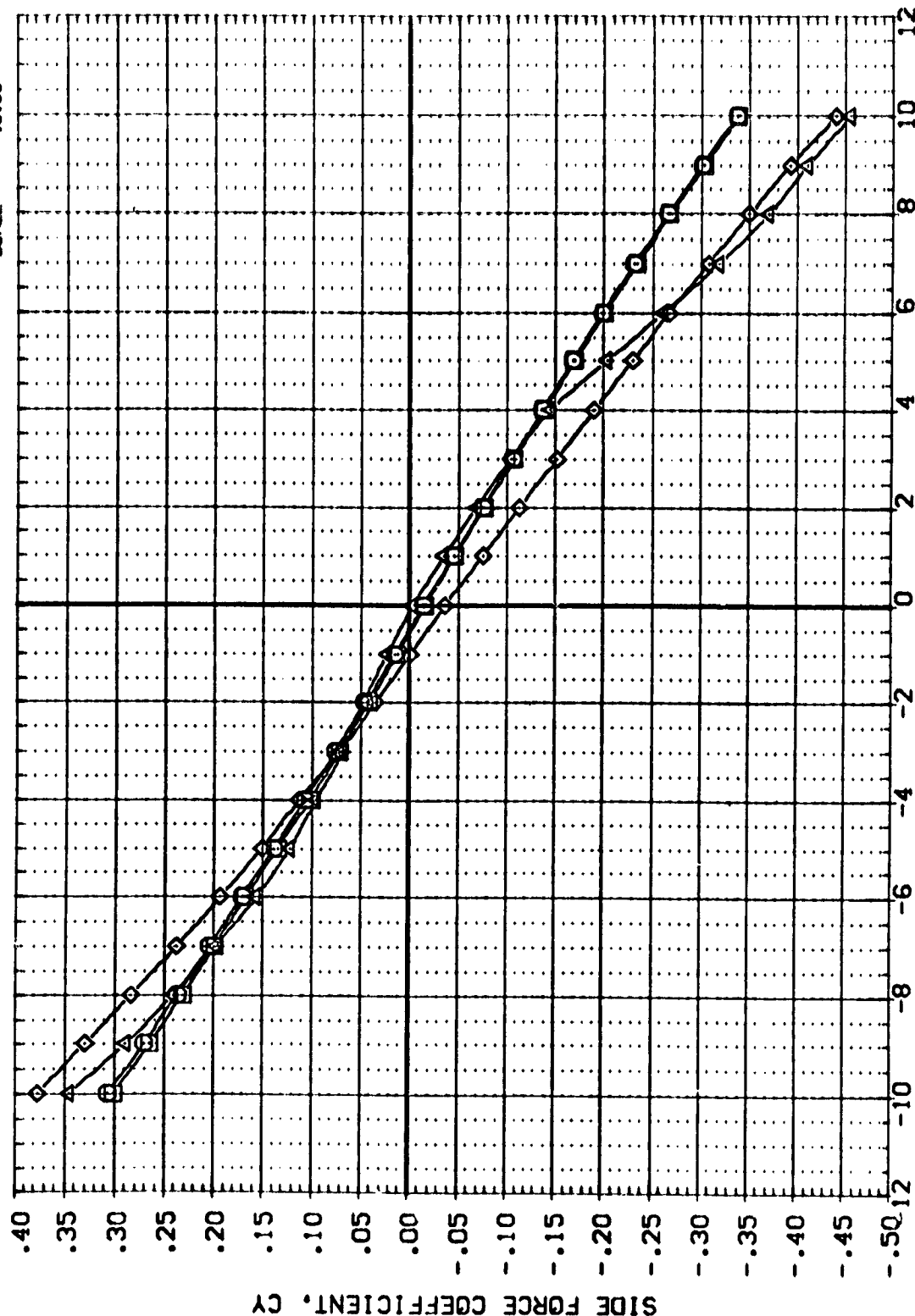
EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTER. (POSITION 3)

(M)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(1A-57); ISOLATED ORB/ET
 (RTLO57) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RTLO59) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (RTLO61) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RN/L PT-JET ALPHA
 3.300 1.760 .000
 3.300 1.760 .000
 3.300 1.760 750.000
 3.300 1.760 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 50.17
 LREF 1260.3000 22.77
 BREF 1260.3000 22.77
 XREF 1052.0000 22.77
 YREF 447.0000 22.77
 ZREF 447.0000 22.77
 SCALE 5100

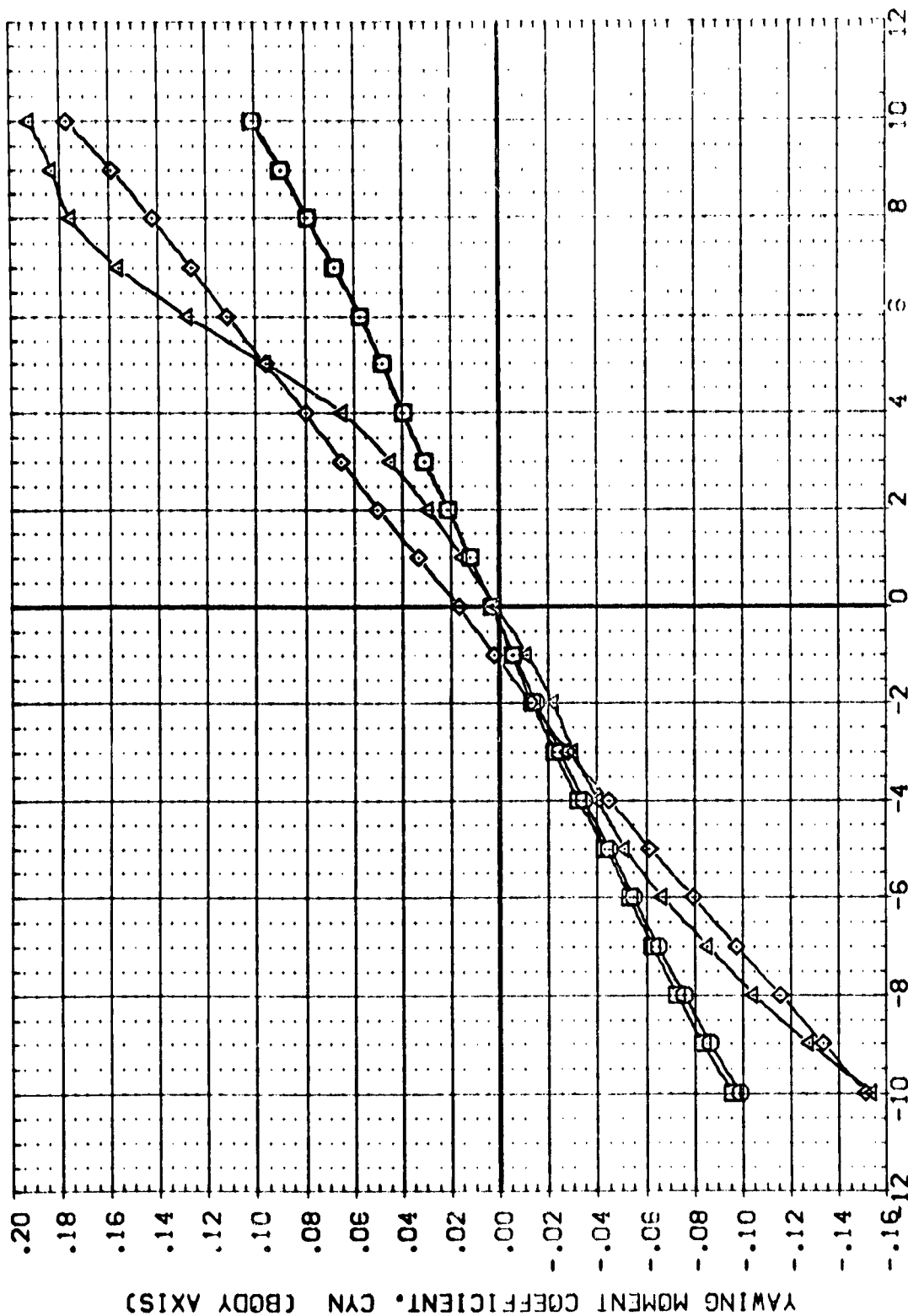


EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTERISTICS (POSITION 3)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RTLO02) AEDC VA-422(1A-57): ISOLATED ORB/ET
 (RTLO03) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
 (RTLO04) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
 (RTLO05) AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

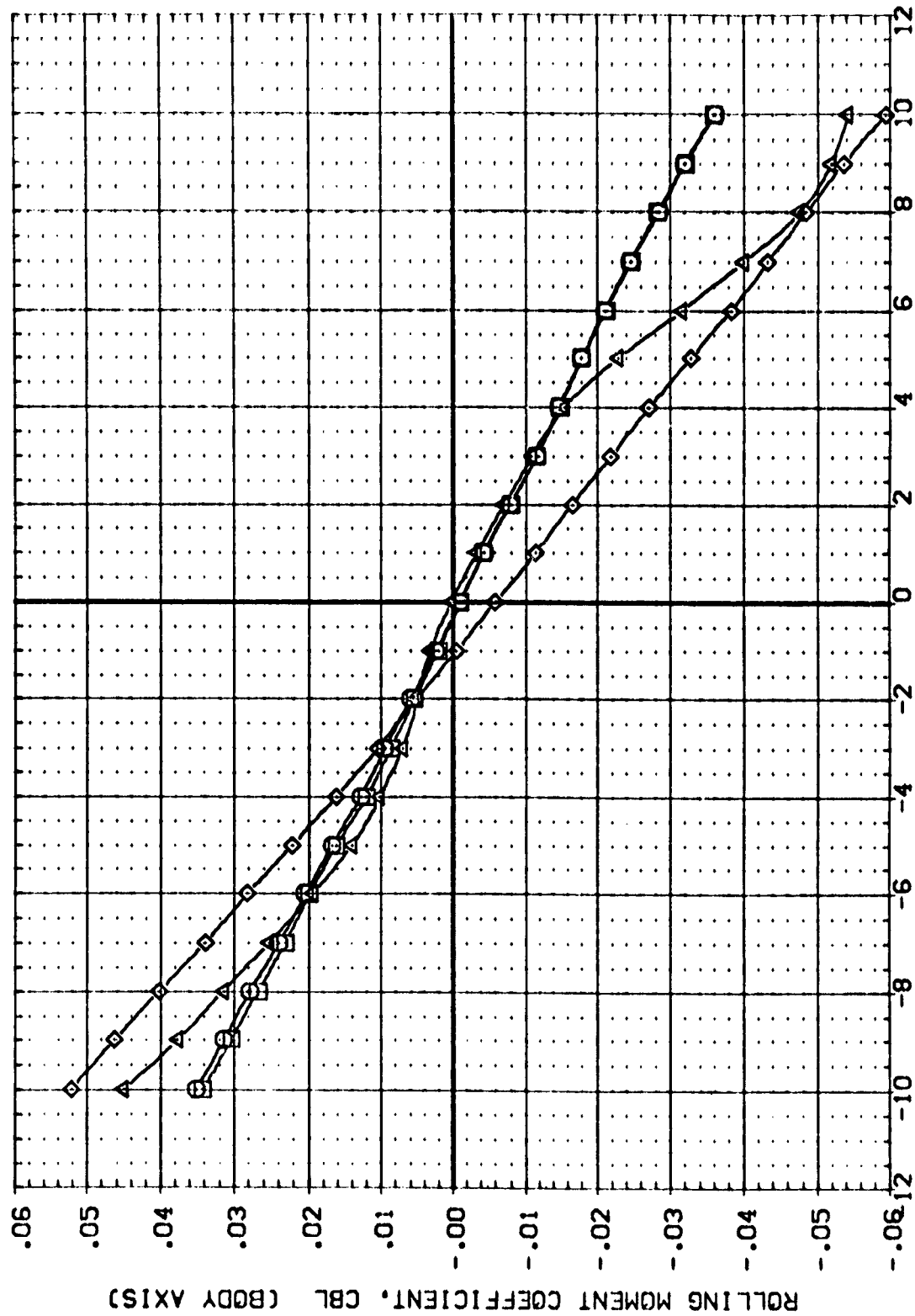
SRBPOS 3.300 1.760
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 3.300 1.760
 3.300 1.760
 PT-JET ALPHA
 .000 .000
 .000 .000
 .000 .000
 .000 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1260.0000
 BREF 1260.0000
 XGRP 1552.0000
 YGRP 1552.0000
 ZGRP 447.0000
 SCALE 1.0000



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACT. (POSITION 3)

(A)MACH = 4.50

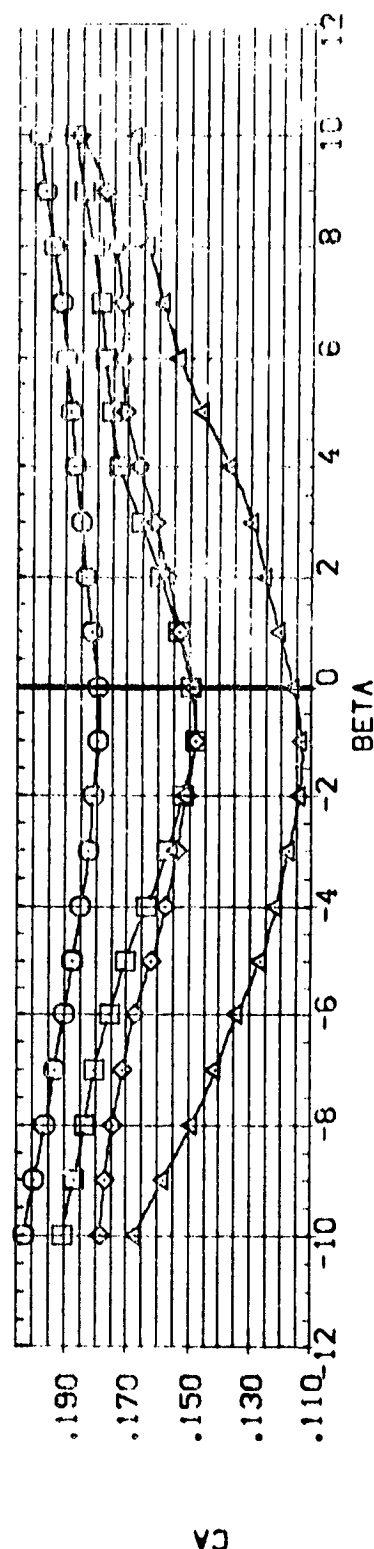
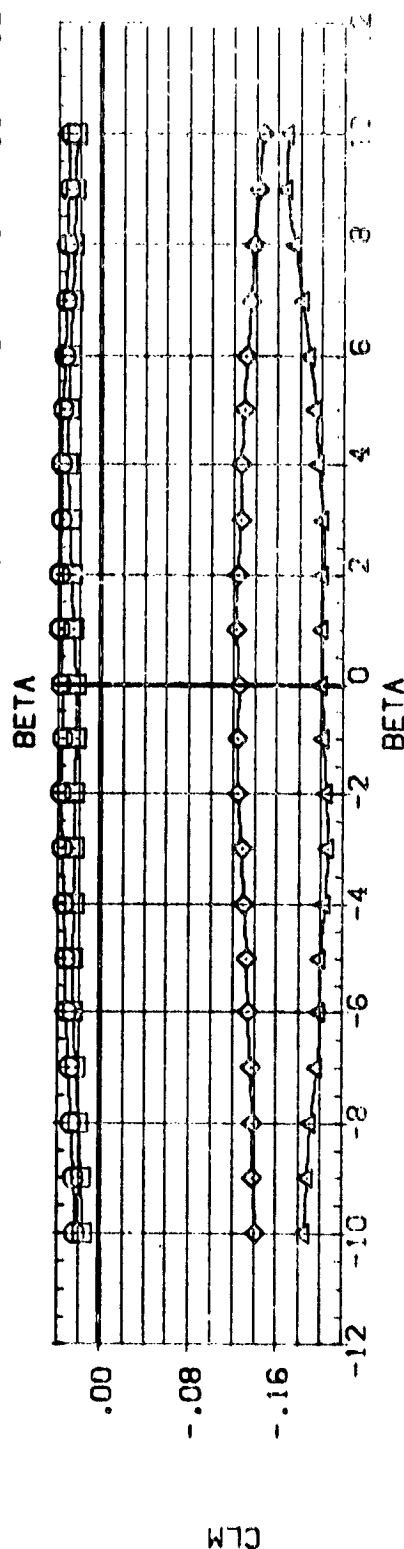
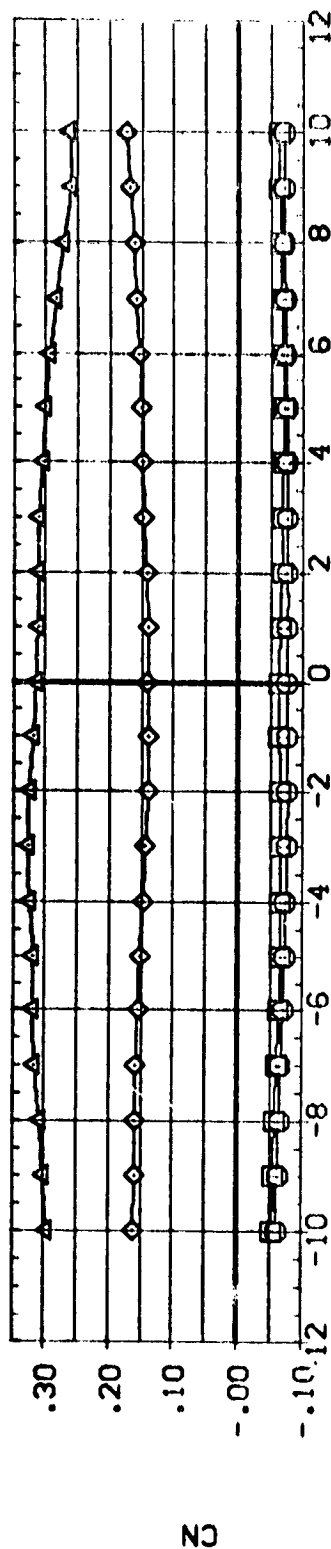
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRBPOS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION	
(R1002)	□	AEDC VA-422(1A-57); ISOLATED ORB/ET	3.300	1.760	.000	.000	SREF	2690.0000 SQ.FT.
(R1057)	△	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	3.300	1.760	.000	.000	LREF	1290.3000 IN.
(R1059)	○	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	3.300	1.760	750.000	.000	BREF	1290.3000 IN.
(R1061)	×	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	3.300	1.760	1500.000	.000	XREF	1052.0000 IN.
							YREF	447.0000 IN.
							ZREF	447.0000 IN.
							SCALE	.0100



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTERISTICS (POSITION 3)

(A)MACH = 4.50

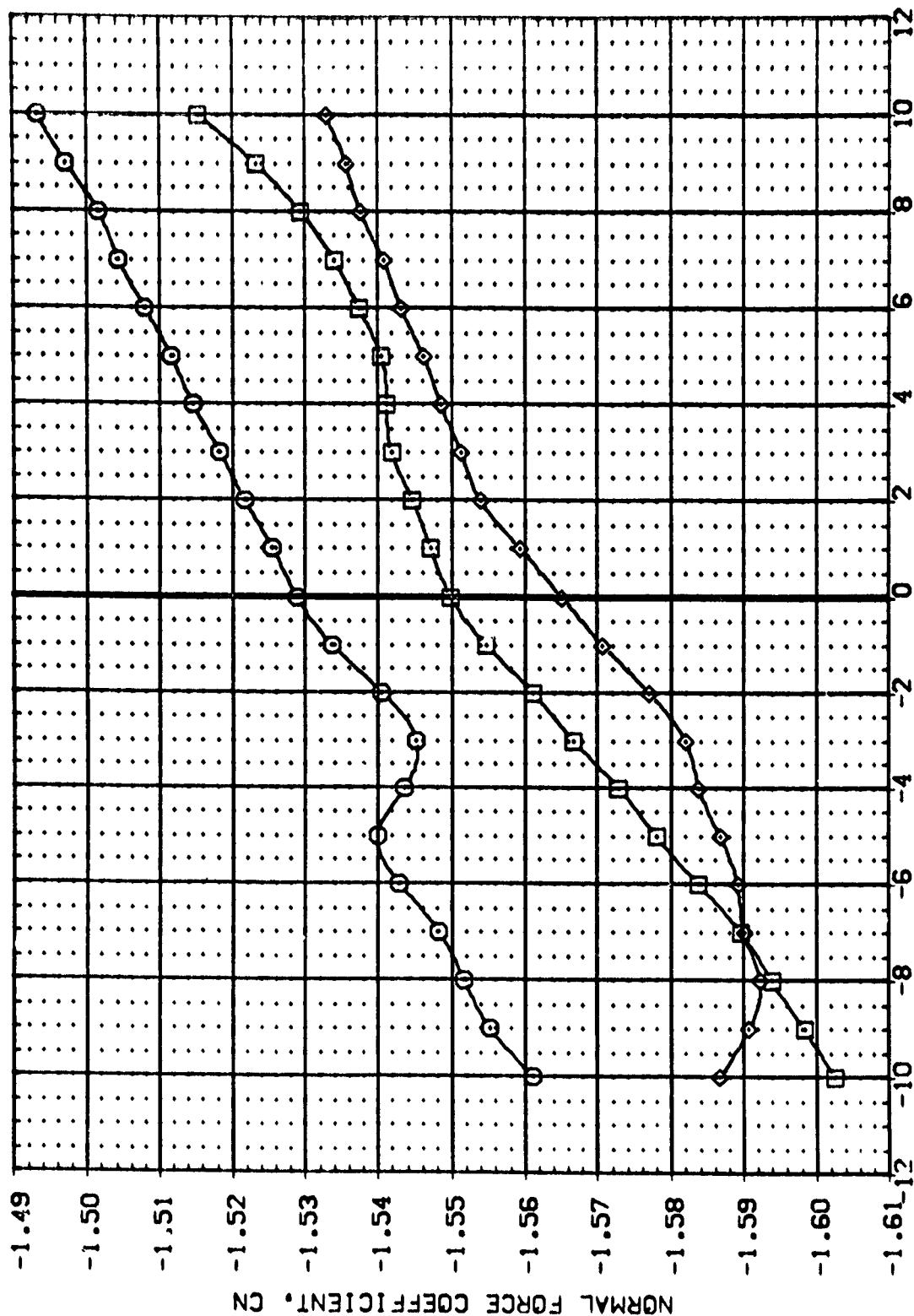
SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE	INFORMATION
3.300	1.760	.000	.000	SREF	2690 0000
3.300	1.760	.000	.000	REF	1260 3000
3.300	1.760	750.000	.000	SREF	1260 3000
3.300	1.760	1500.000	.000	XPR	1052 0000
				YPR	0000
				ZPR	447.0000
				SCALE	1.000
					Z



EFFECT OF TWO SRB AND SRB PLUMES ON O/ET CHARACTERISTICS. (POSITION 2)

$[A]_{\text{MACH}} = 4.50$

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION	
[S1031]	○	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	1.100	1.010	1500.000	.000	SREF	2690.0000
[S1042]	◇	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	2.200	1.010	1500.000	.000	LREF	1290.3000
[S1753]	◇	AEDC VA-422(1A-57); ORB/ET V/BOTH SRB	3.300	1.010	1500.000	.000	BREF	1290.3000
							XMRP	1167.0000
							YMRP	.0000
							ZMRP	.0000
							SCALE	400.0000
								50.FT.
								IN.
								IN.
								IN.
								IN.
								IN.



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.01)

(A)MACH = 4.50

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CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57). 0RB/EI V/BOTH SRB
AEDC VA-422(1A-57). 0RB/EI V/BOTH SRB
AEDC VA-422(1A-57). 0RB/EI V/BOTH SRB

SRPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION	SG.FT.
1.100	1.010	1500.000	.000	SREF	2690.0000
1.200	1.010	1500.000	.000	LREF	1790.3000
2.200	1.010	1500.000	.000	BREF	1290.3000
3.300	1.010	1500.000	.000	YREF	1157.0000
				ZREF	.0000
				SCALE	400.0000
					.0100

REFERENCES

1.15 000 063 3385

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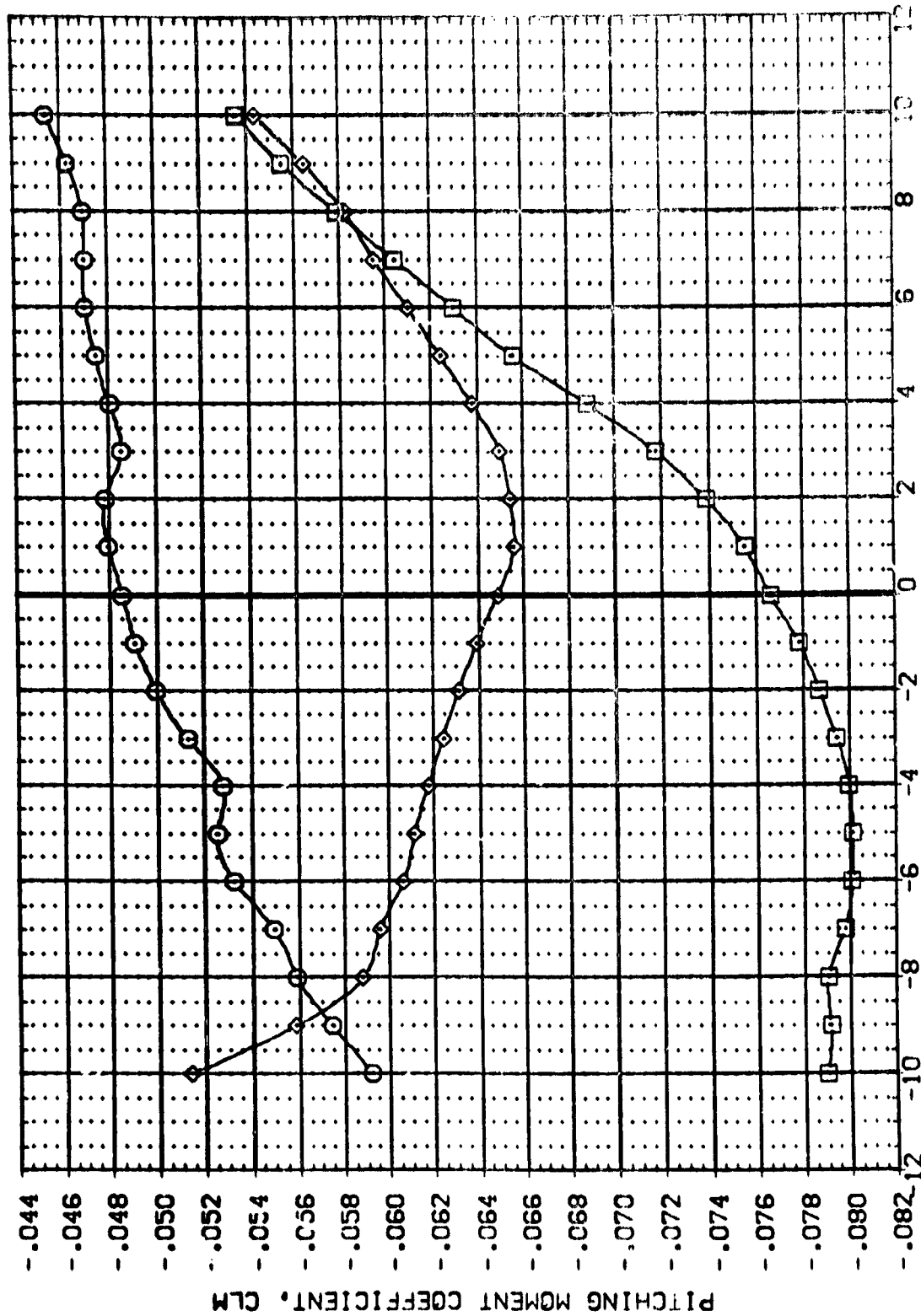
THE UNIVERSITY OF CHICAGO

0864-7398

WILLIAM H. GILBERT

0000000000

7-28-17 400.0000 IN. 25



ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (P/W=1.00)

$$[\text{AcyAcH}] = 4.50$$

{ }
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 { }

DATA SET SYMBOL: (S1_031) (S1_042) (S1_053)

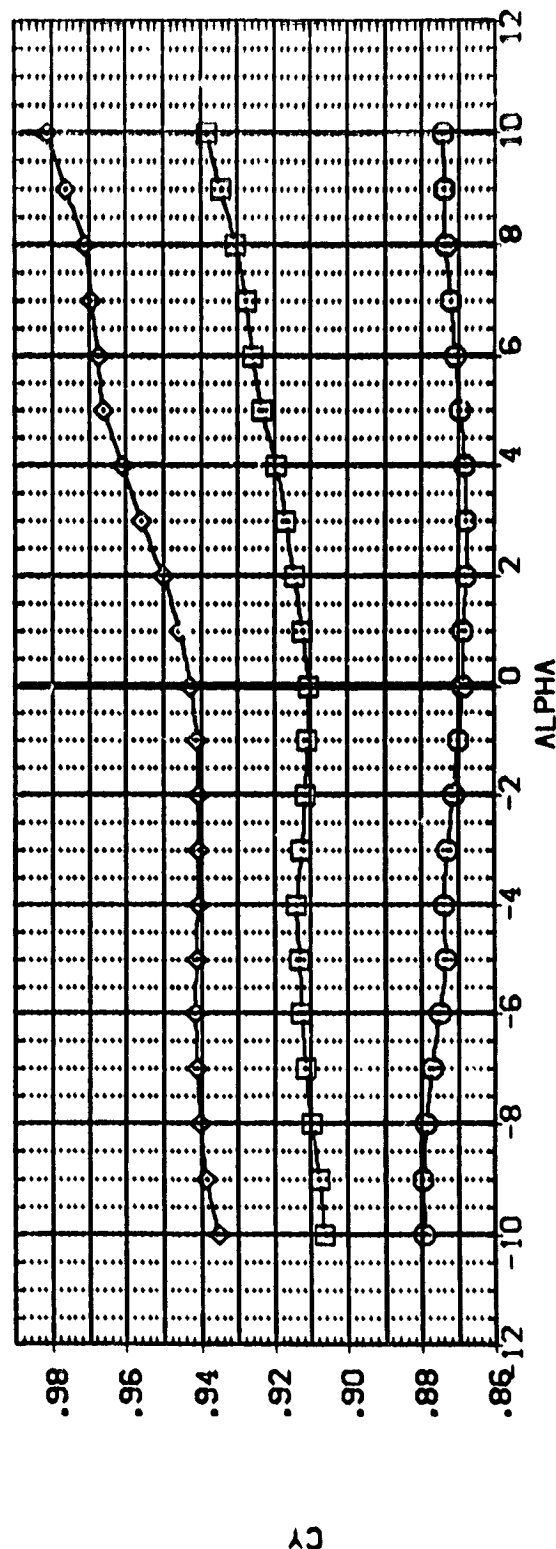
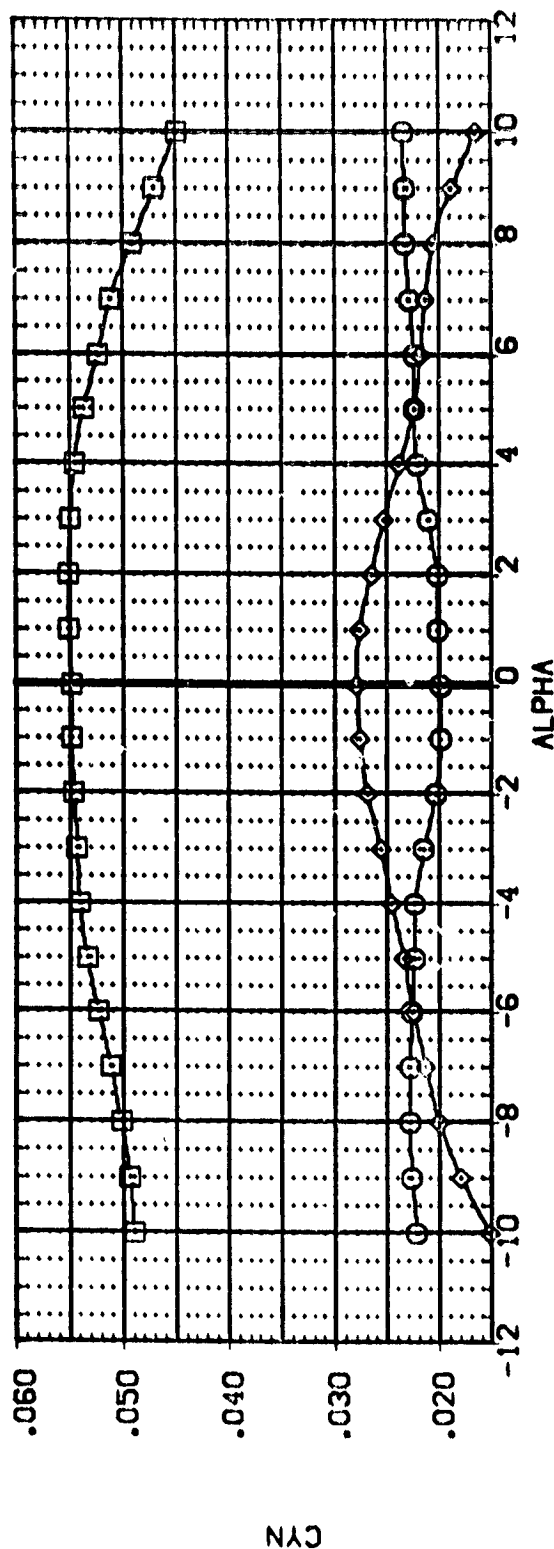
CONFIGURATION DESCRIPTION:
 AEDC VA-422(A-57): ORB/ET V/BOOTH SRB
 AEDC VA-422(A-57): ORB/ET V/BOOTH SRB
 AEDC VA-422(A-57): ORB/ET V/BOOTH SRB

SRB POS: 1.100 1.010 1500.000
 2.200 1.010 1500.000
 3.300 1.010 1500.000

PT-JET: .000
 .000
 .000

BETA: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: 2630.0000 SQ.FT.
 LREF: 1290.0000 IN.
 SREF: 1290.0000 IN.
 XREF: 1157.0000 IN.
 YREF: 400.0000 IN.
 ZREF: 400.0000 IN.
 SCALE: .0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.01)

(A)MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(S1L032) AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 (S1L043) AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 (S1L054) AEDC VA-422(1A-57); ORB/ET V/80TH SRB

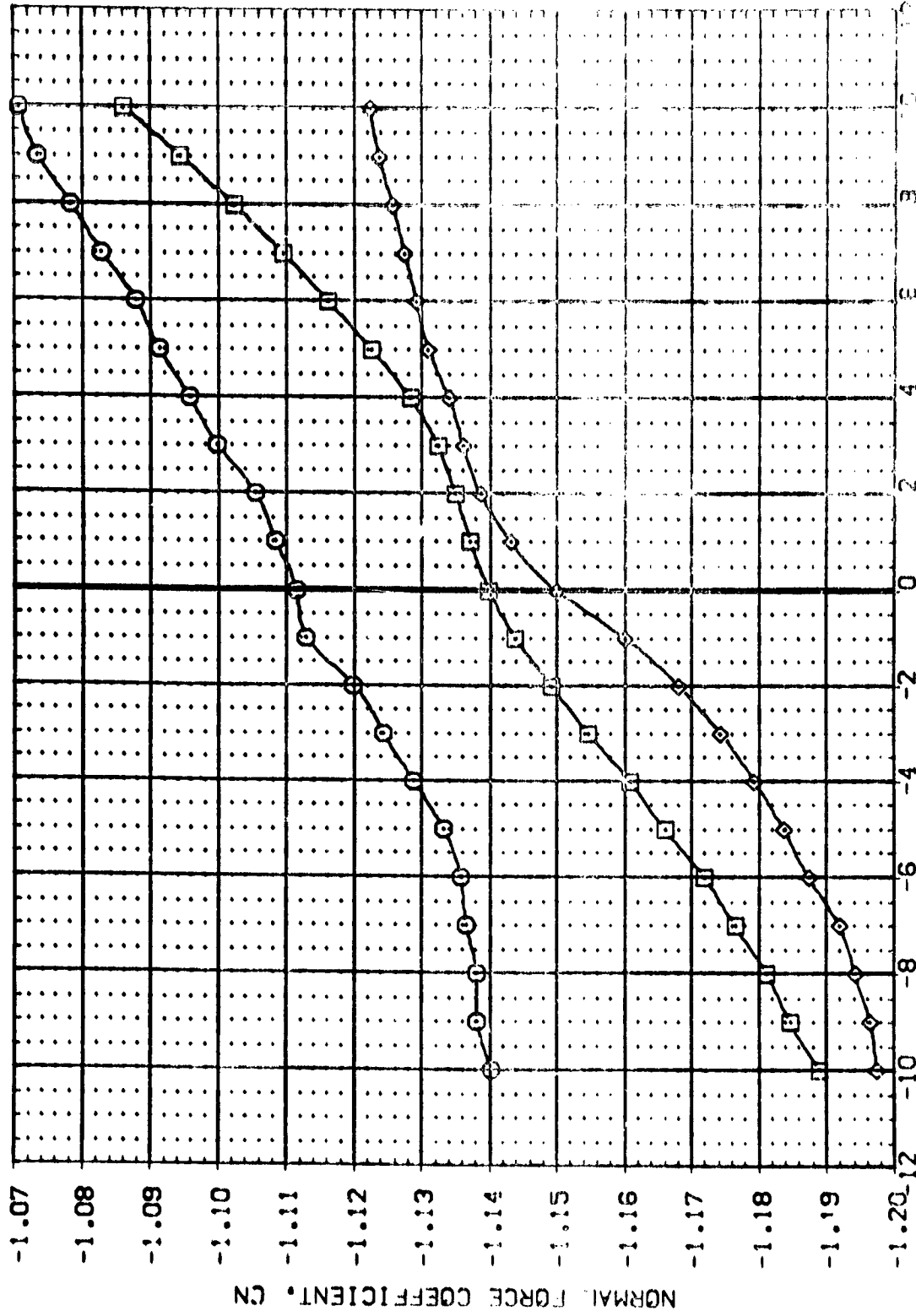
SRBPOS
 1.100
 2.200
 3.300

RV/L
 1.400 1500.000
 1.400 1500.000
 1.400 1500.000

PT-JET
 .000
 .000
 .000

BETA
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 1690.0000 50.FT.
 IREF 1290.3000 10.
 EREF 1290.3000 10.
 XMRP 1167.0000 10.
 YMRP 400.0000 10.
 ZMRP 400.0000 10.
 SCALE .0100



ANGLE OF ATTACK, ALPHA, DEGREES

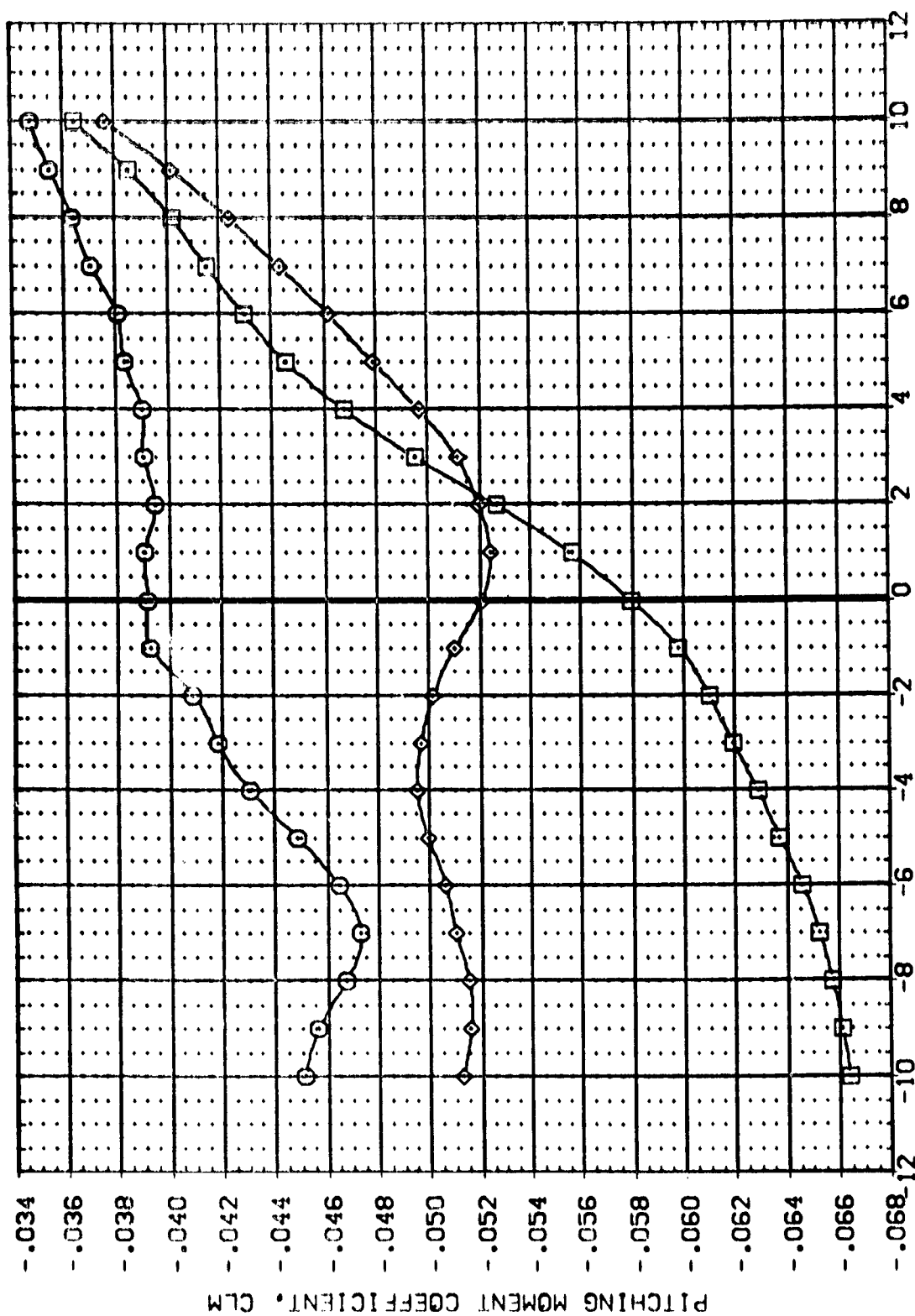
EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (P. 12)

CALMAC = 4.50



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRS
{ ST-032 }	AEDC VA-422{A-57}.	SRS
{ ST-043 }	AEDC VA-422{A-57}.	SRS
{ ST-054 }	AEDC VA-422{A-57}.	SRS

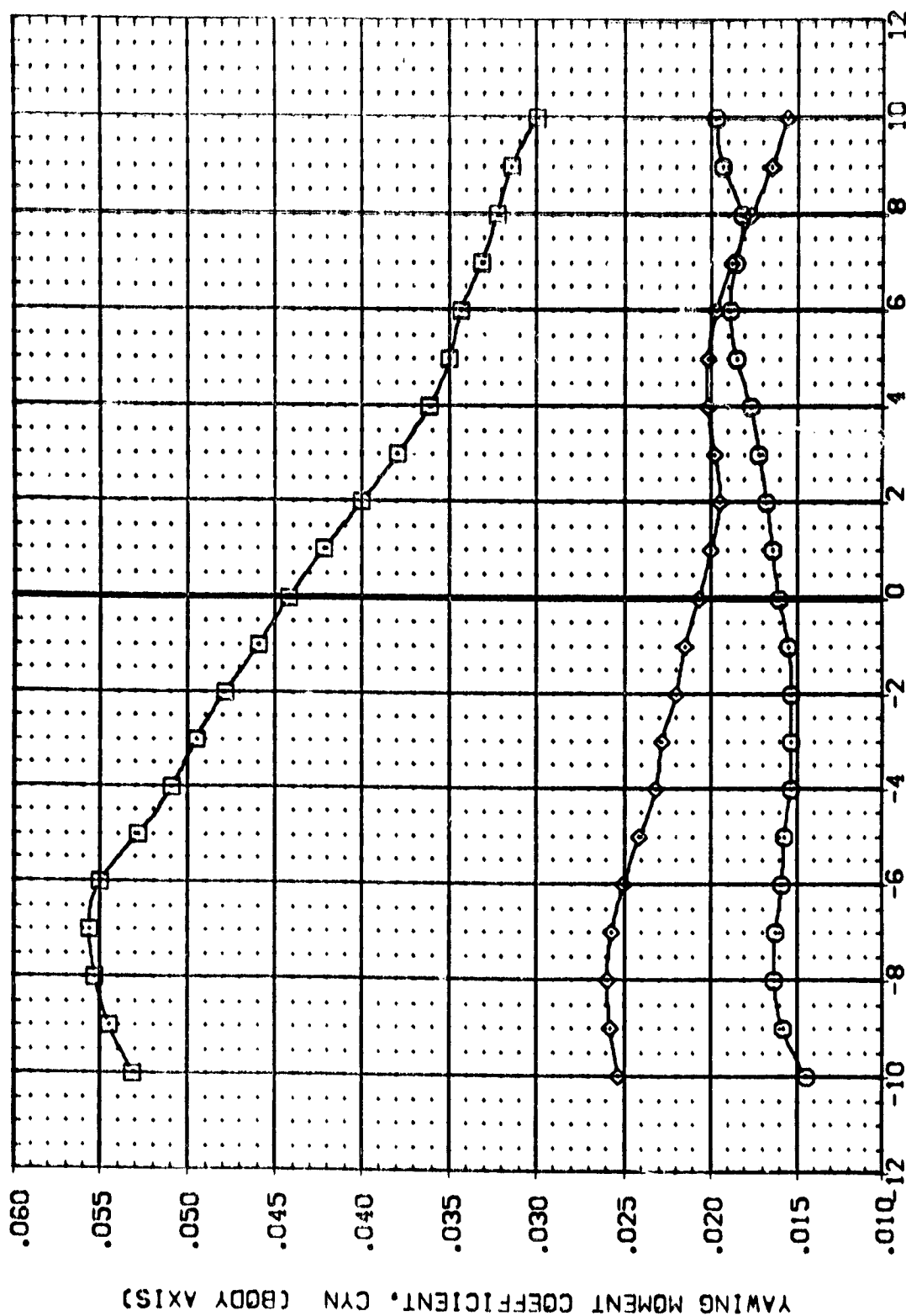
STOPS	RVL	PT-JET	BETA	REFERENCE	INFORMATION
1.00	1.400	1500.000	.000	GREF	2690.3000 50. FT.
1.200	1.400	1500.000	.000	LREF	1290.3000 27.7
2.000	1.400	1500.000	.000	BREF	1290.3000 27.7
3.300	1.400	1500.000	.000	VREF	1167.0000 24.5
				VREF	1000.0000 22.1
				ZREF	400.0000 11.5
				SCALE	100.0000



[S'L033]	AEDC VA-422[1A-57].	CRB/EI V/BOTH \$98
[S'L044]	AEDC VA-422[1A-57].	CRB/EI V/BOTH \$98
[S'L055]	AEDC VA-422[1A-57].	CRB/EI V/BOTH \$98

SREPOS	RVL	PT-JET	ALPHA
1.100	1.400	1500.000	.000
2.200	1.400	1500.000	.000
3.300	1.400	1500.000	.000

REFERENCE INFORMATION	
SREF	2590.0000 SQ.FT.
1REF	1290.0000 IN.
2REF	1290.0000 IN.
3REF	1167.0000 IN.
4REF	1000.0000 IN.
5REF	400.0000 IN.
SCALE	1:500



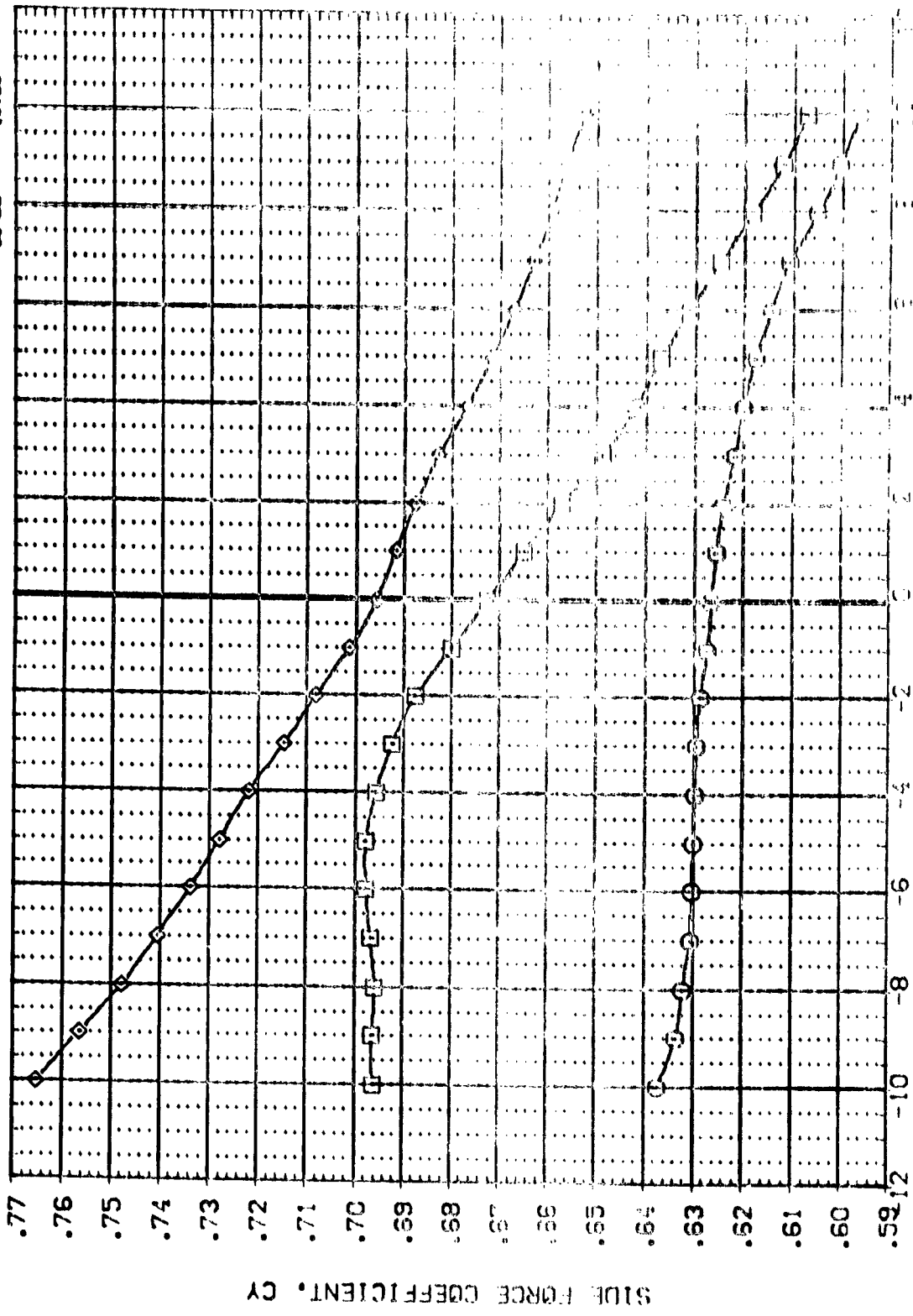
EFFECT OF SYMMETRICAL SP3 SEPARATION ON SRB CHARACTERISTICS (RN/L=1.4)

$$\{A\}^{\text{MACH}} = 4.50$$

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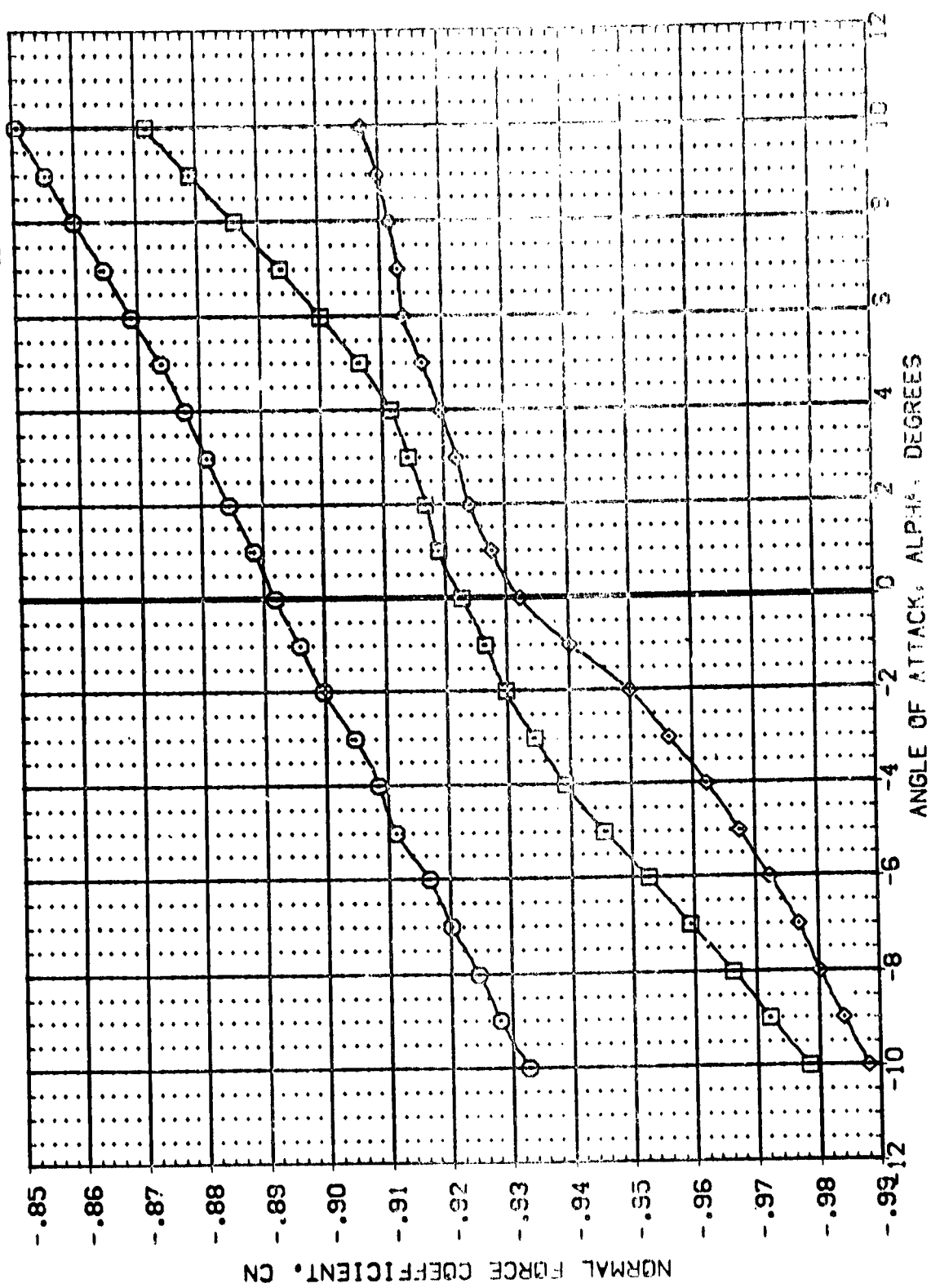
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [STC03] AEDC VA-422(IA-57): SRB/ET V/80TH SRB
 [STC04] AEDC VA-422(IA-57): SRB/ET V/80TH SRB
 [STC05] AEDC VA-422(IA-57): SRB/ET V/80TH SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE SPEED
 1.100 1.400 1500.000 .000 150.000
 2.200 1.400 1500.000 .000 150.000
 3.300 1.400 1500.000 .000 150.000
 4.400 1.400 1500.000 .000 150.000
 5.500 1.400 1500.000 .000 150.000
 6.600 1.400 1500.000 .000 150.000
 7.700 1.400 1500.000 .000 150.000
 8.800 1.400 1500.000 .000 150.000
 9.900 1.400 1500.000 .000 150.000
 10.000 1.400 1500.000 .000 150.000



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS
 MACH = 4.50

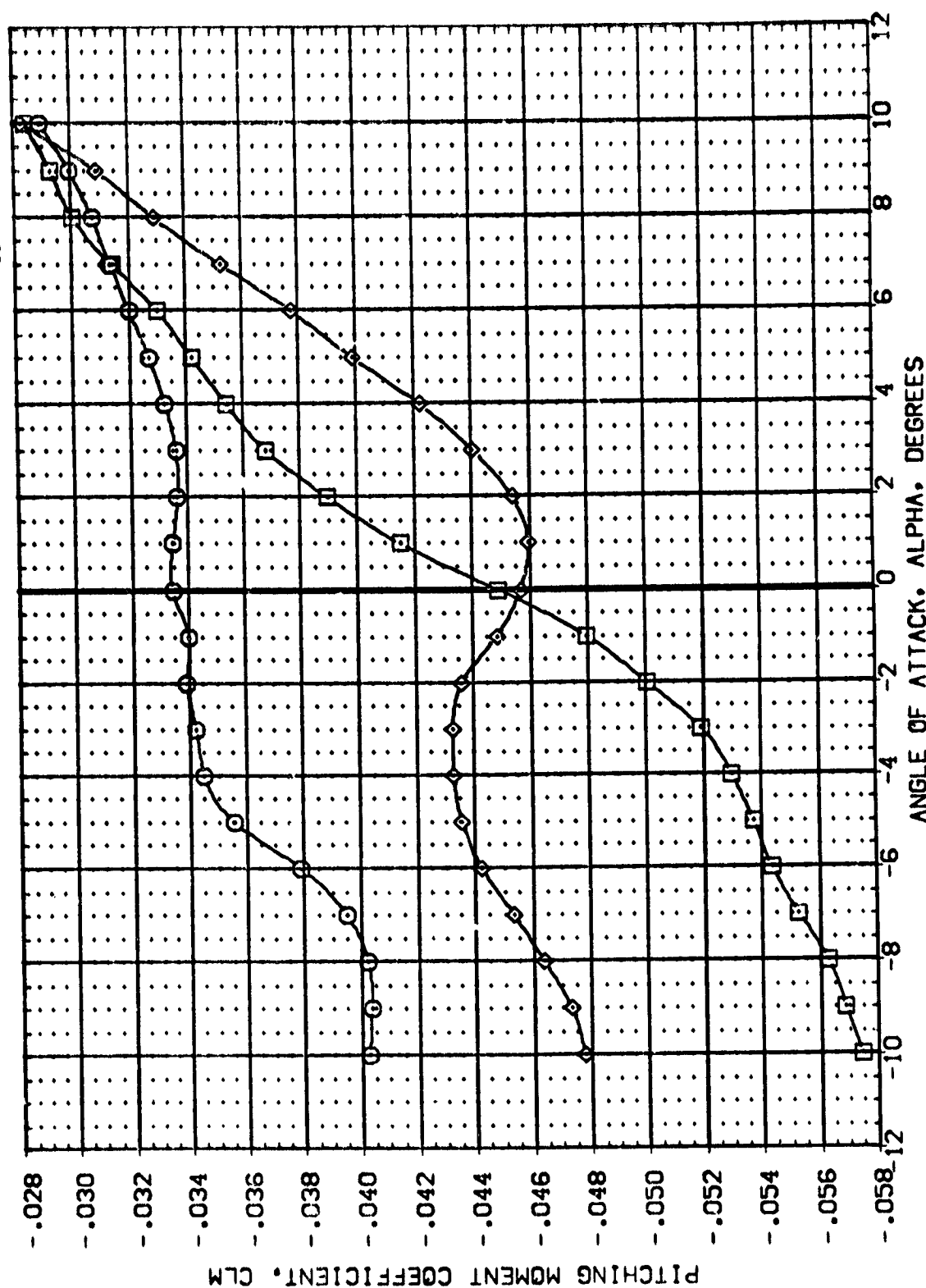
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	SRB POS		RN/L	PT-JET	BETA	REFERENCE INFORMATION	
{ STL038 }	□	AEDC VA-422(A-57): CRB/ET V/BOTH SRB	1.100	1.760	1500.000	.000	SREF	2650.0000	50.00
{ STL049 }	◇	AEDC VA-422(A-57): CRB/ET V/BOTH SRB	2.200	1.760	1500.000	.000	LREF	1200.0000	10.00
{ STL050 }	◇	AEDC VA-422(A-57): CRB/ET V/BOTH SRB	3.300	1.760	1500.000	.000	SREF	1250.0000	10.00
							XREF	1157.0000	10.00
							YREF	100.0000	10.00
							ZREF	100.0000	10.00
							SCALE	.0100	



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHAFF. (CN/ALPHA, PT-JET)

CALMACH = 4.50

SRBPOS	RNVL	PT-JET	BETA	REFERENCE	IN-ORATION	SO.FT.
1.100	1.760	1500.000	.00	SREF	2690	0000
2.200	1.760	1500.000	.00	LREF	1290	3000
3.300	1.760	1500.000	.00	SREF	1290	3000
				XREF	1167	0000
				YREF	0000	0000
				ZREF	400	0000
				SCALE		.0100
						XS
						YS
						ZS



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTER. (RN/L=1.76, PT-JET=1500)

CAMACH - 4.50

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REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

DATA SET SYMBOL
 (STLO38)
 (STLO49)
 (STLO60)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 AEDC VA-422(1A-57), ORB/ET V/80TH SRB

SRBPOS
 1.100
 2.200
 3.300

RN/L
 1.760
 1.760
 1.760

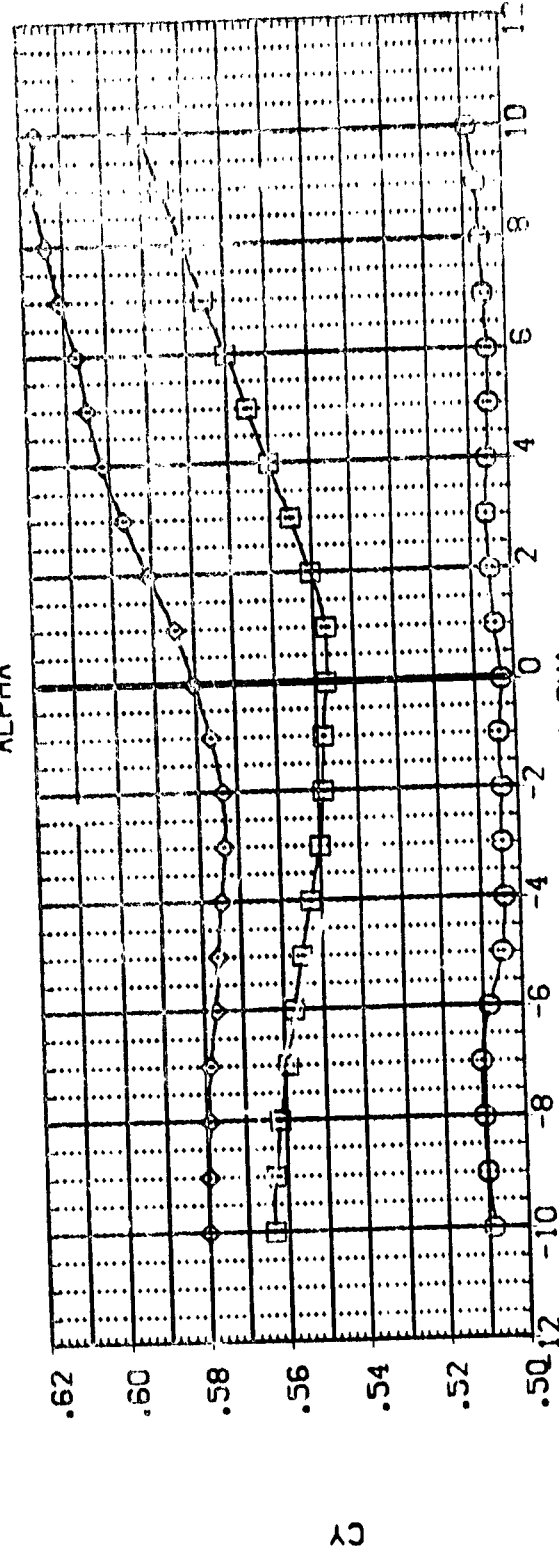
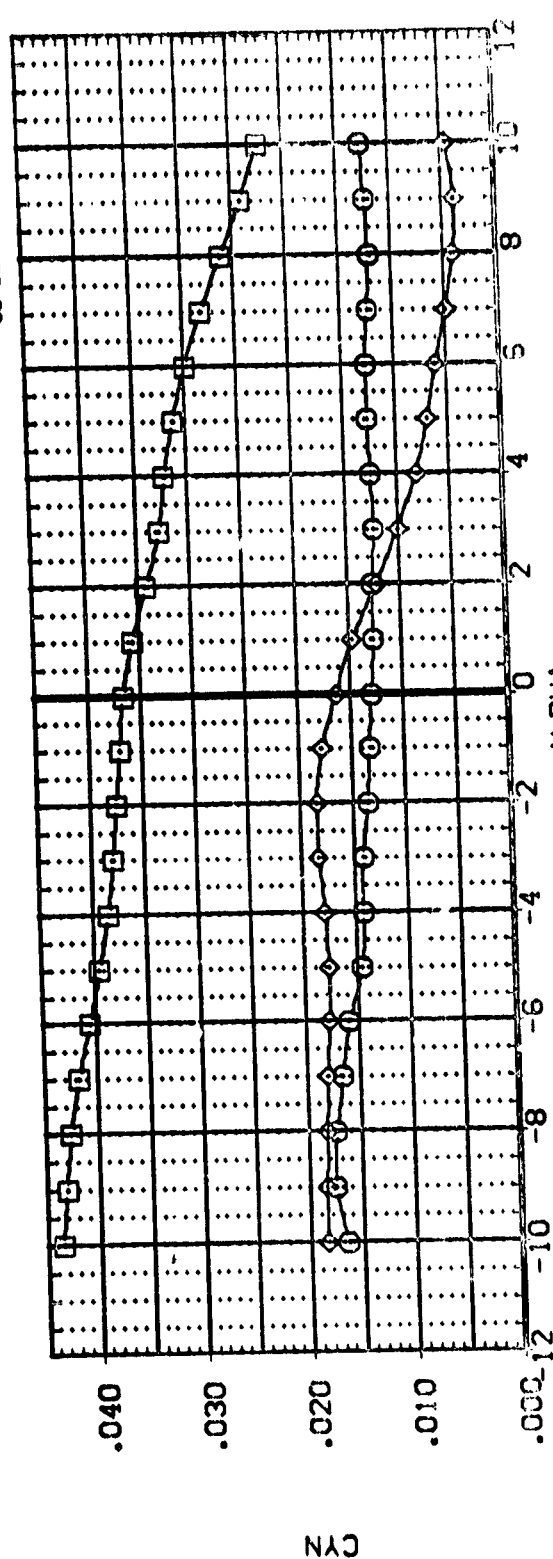
PT-JET
 1500.000
 1500.000
 1500.000

BETA
 .000
 .000
 .000

REFERENCE INFORMATION

SD, FT.
 2690.0000
 1290.3000
 1290.3000
 1167.0000
 400.0000
 400.0000
 .0100

SREF
 LREF
 BREF
 XREF
 YREF
 ZREF
 SCALE

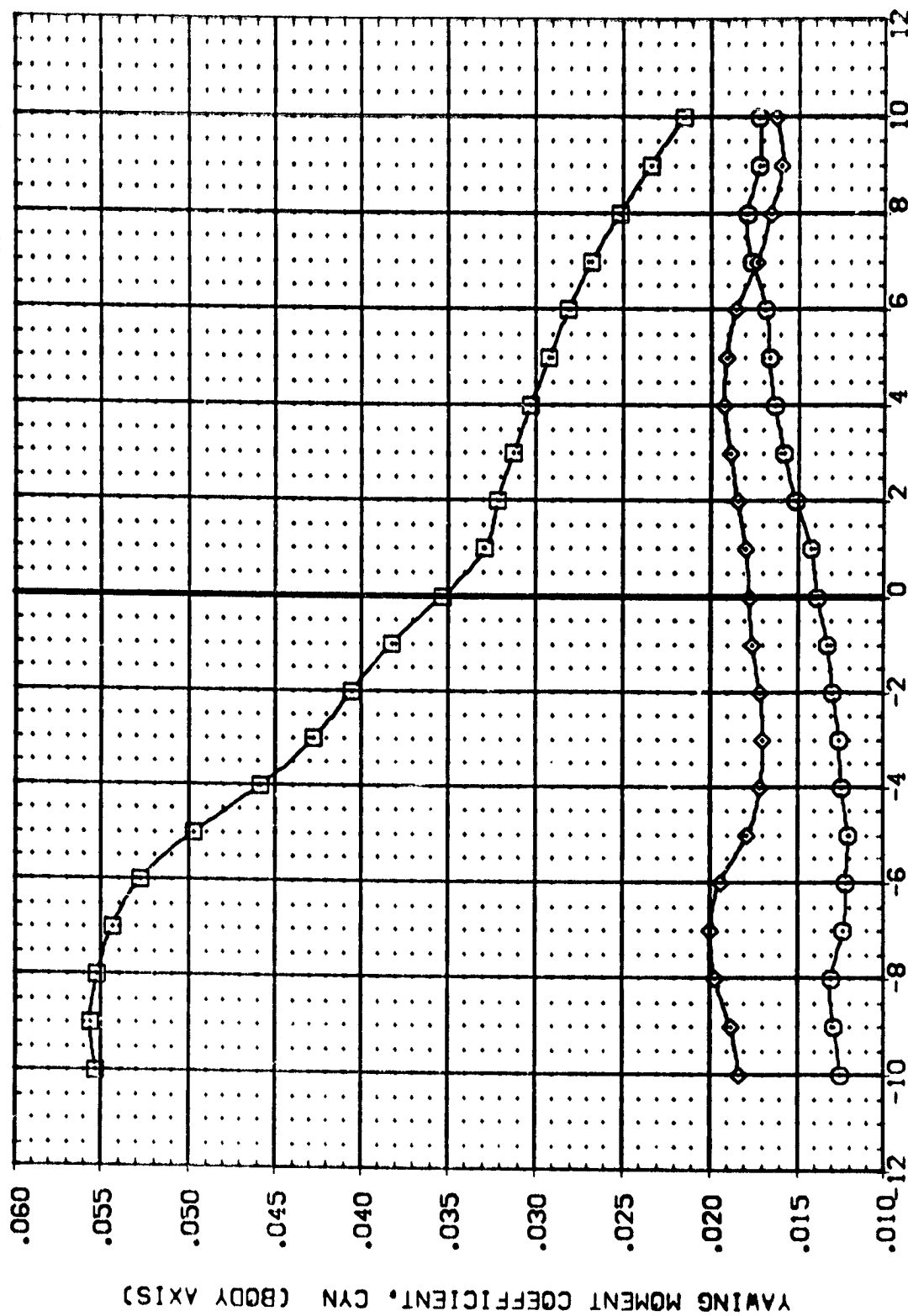


EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS, ORN/L=1.76, PT-JET=1500

CALCULATED 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRB POS RV/L PT-JET ALPHA REFERENCE INFORMATION

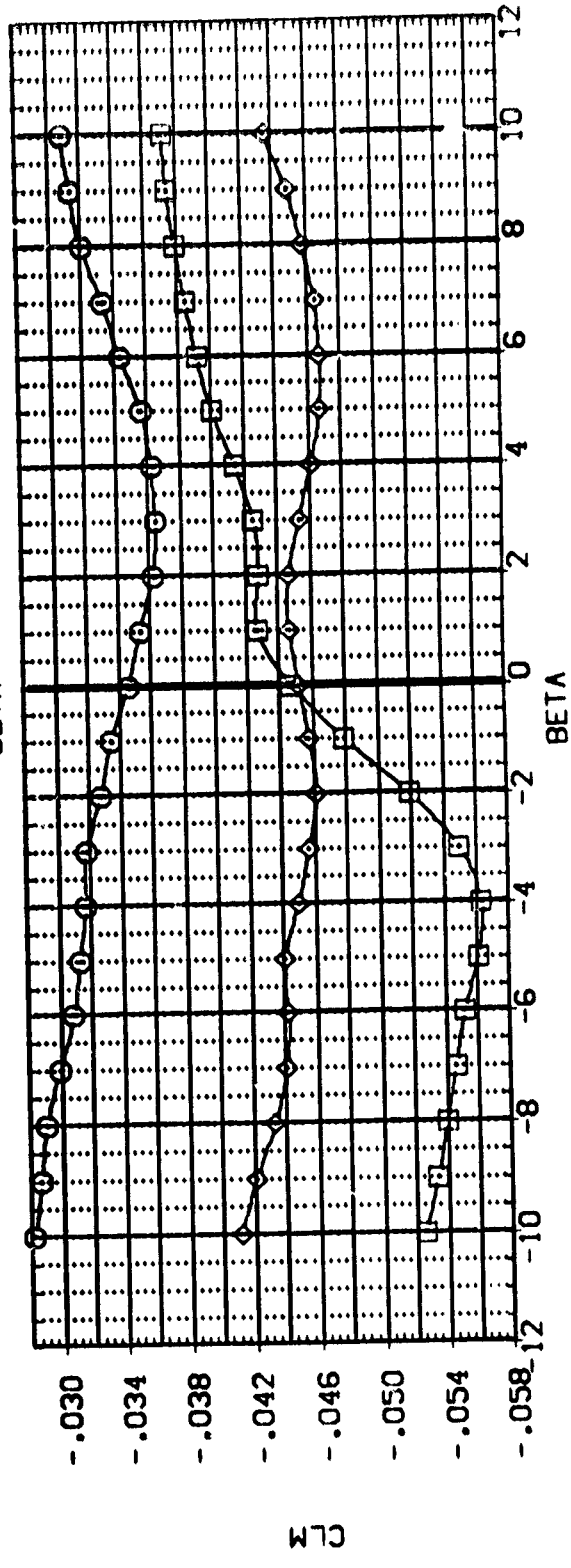
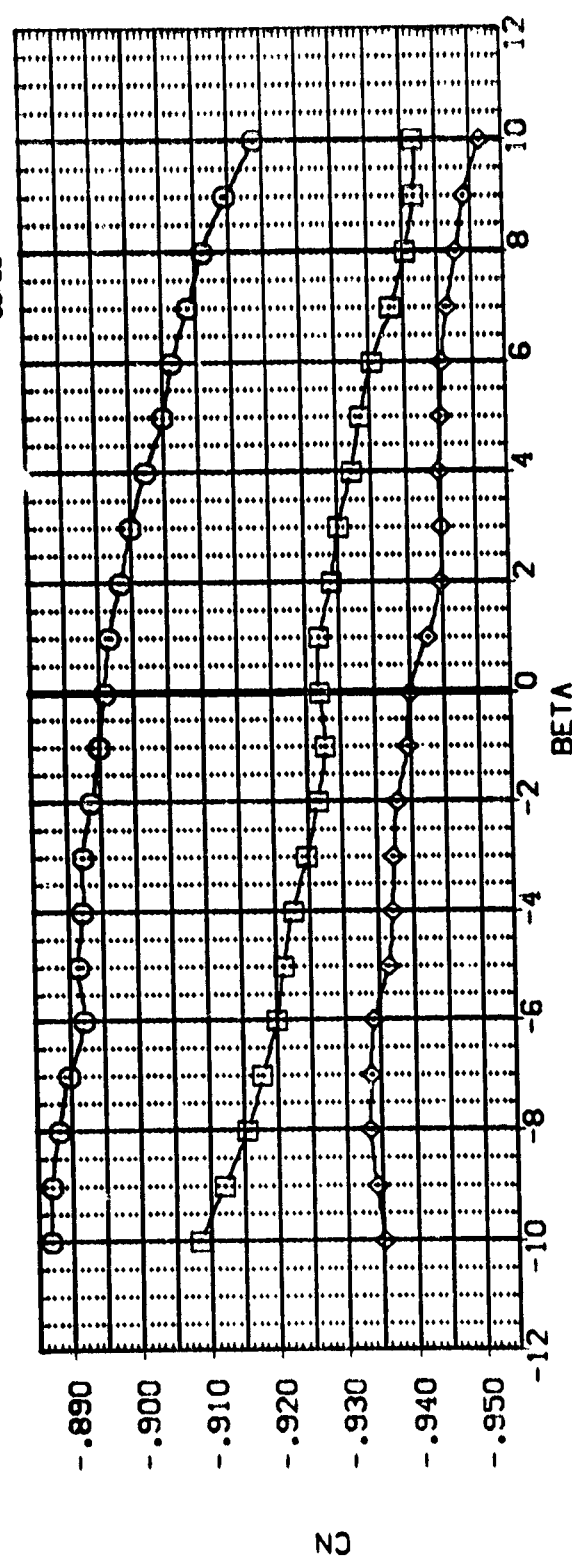
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL039]	AEDC VA-422(A-57); ORB/ET V/BOTH SRB	1.100	1.760	1500.000	.000	SREF 3550.0000 SQ.FT.
[STL050]	AEDC VA-422(A-57); ORB/ET V/BOTH SRB	1.200	1.760	1500.000	.000	LREF 250.3000 IN.
[STL051]	AEDC VA-422(A-57); ORB/ET V/BOTH SRB	2.300	1.760	1500.000	.000	BREF 250.3000 IN.
						XPROP 1167.0000 IN. XS
						YPROP 400.0000 IN. YS
						ZPROP 400.0000 IN. ZS
						SCALE .0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTER. (RV/L=1.76, PT-JET=1500)

(A) MACH = 4.50

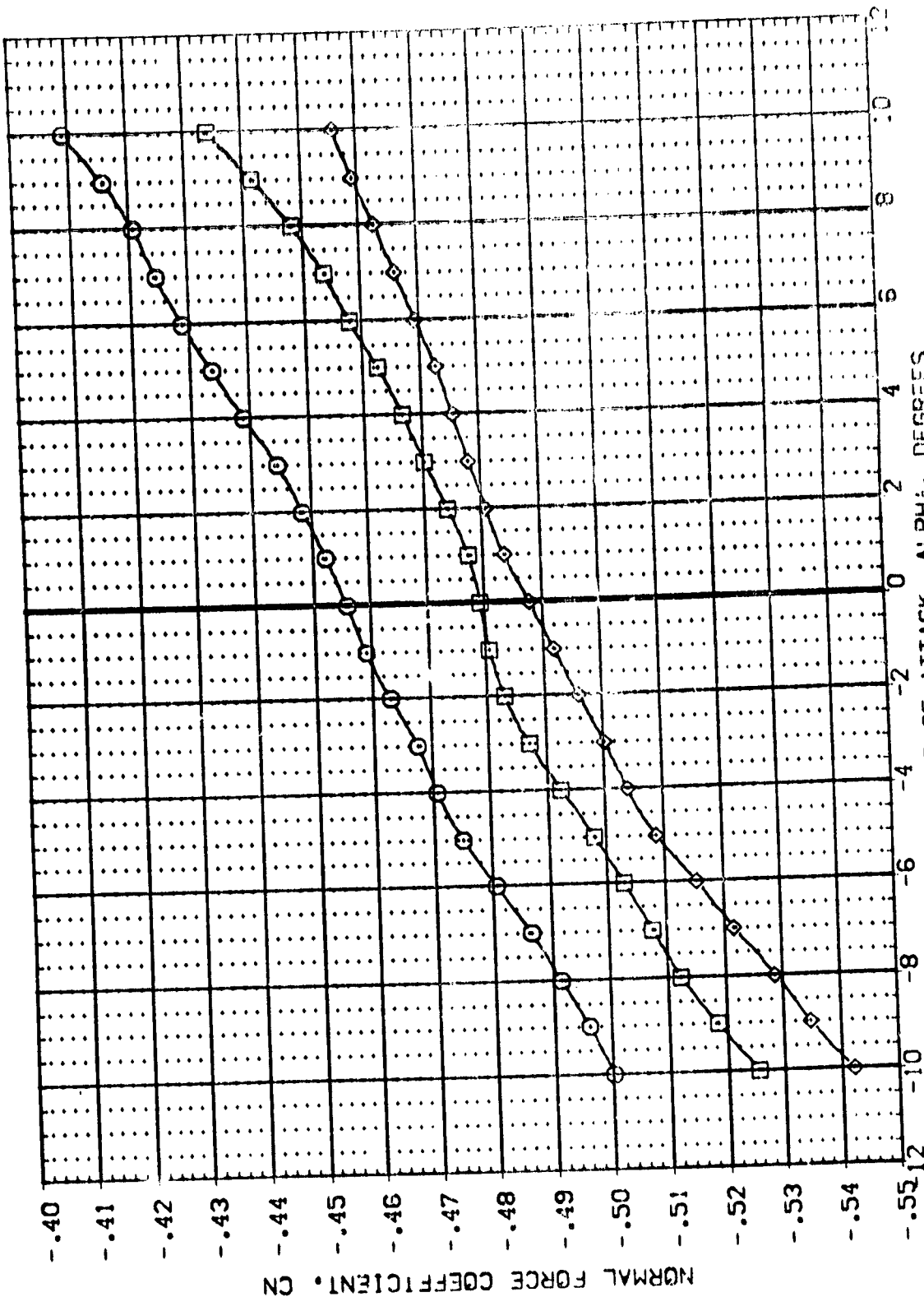
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(SIL039)	AEBC VA-422(A-57); CRB/ET V/80TH SRB	1.100	1.760	1500.000	.000	SREF 2690.0000 SQ.FT.
(SIL050)	AEBC VA-422(A-57); CRB/ET V/80TH SRB	2.200	1.760	1500.000	.000	LREF 1290.3000
(SIL051)	AEBC VA-422(A-57); CRB/ET V/80TH SRB	3.300	1.760	1500.000	.000	BREF 1290.3000
						XREF 1167.0000
						YREF 400.0000
						ZREF 400.0000
						SCALE .0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTER. (RN/L=1.76, PT-JET=1500)

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 [S1036] AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 [S1047] AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 [S1058] AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 1.100 1.760 750.000 .000 SREF 1650.0000 SQ.FT.
 2.200 1.760 750.000 .000 LREF 1250.3000 IN.
 3.300 1.760 750.000 .000 BREF 1750.3000 IN.
 XMRP 115.0000 IN. XS
 YMRP 400.0000 IN. YS
 ZMRP 10100 SCALE IN. ZS



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHAPACT. (RMV=1.75, PT-JET=750)

CADMAC - 4.50

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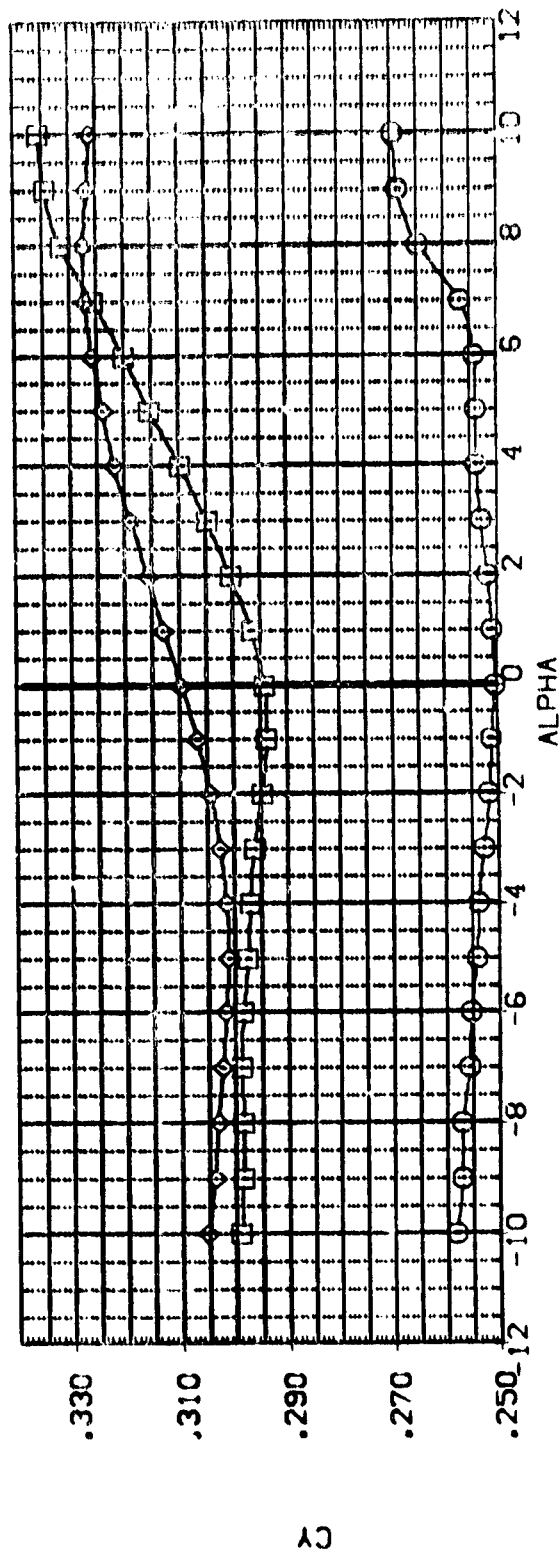
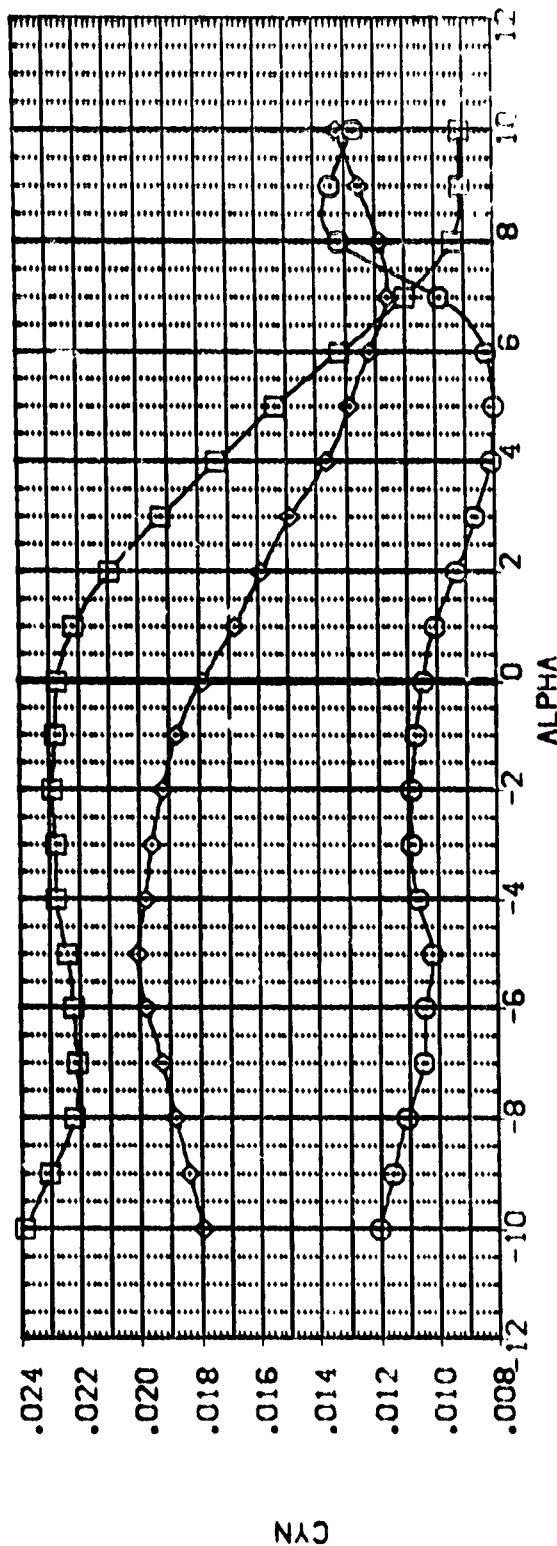
AEDC	VA-422(A-57).	ORB/ET	V/BOTH	\$RB
EDC	VA-422(A-57).	ORB/ET	V/BOTH	\$RB
AEDC	VA-422(A-57).	ORB/ET	V/BOTH	\$RB

REFERENCE	2690	0000	52.17.
SPRF	1790	3000	52.17.
REF	1290	3000	52.17.
SPRF	1167	0000	52.17.
REF	0000	0000	52.17.
SPRF	400	0000	52.17.
REF	0000	0000	52.17.
SCALE	0.00		


$$[A]_{\text{MACH}} = 4.50$$

DATA SET SYMBOL: [ST-036] [ST-047] [ST-058]
 CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ORB/ET V/80TH SRB
 AEDC VA-422(1A-57): ORB/ET V/80TH SRB
 AEDC VA-422(1A-57): ORB/ET V/80TH SRB

SRB POS: 1.100 2.200 3.300
 RV/L: 1.760 1.760 1.760
 PT-JET: 750.000 750.000 750.000
 BETA: .000 .000 .000
 REFERENCE INFORMATION:
 SREF: 3850.0000 50.0000
 LREF: 1750.3000 10.0000
 SREF: 1750.3000 10.0000
 XREF: 1167.0000 10.0000
 YREF: 2000.0000 10.0000
 ZREF: 400.0000 10.0000
 SCALE: .0100



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS. (RM/L=1.76, PT-JET=750)

(A) MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

{STLO37} AEDC VA-422{A-57}: ORB/ET V/80TH SRB

{STLO48} AEDC VA-422{A-57}: ORB/ET V/80TH SRB

{STLO59} AEDC VA-422{A-57}: ORB/ET V/80TH SRB

SRBPOS RN/L PT-JET ALPHA

1.100 1.760 750.000 .070

2.200 1.760 750.000 .000

3.300 1.760 750.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LRREF 1750.3000 IN.

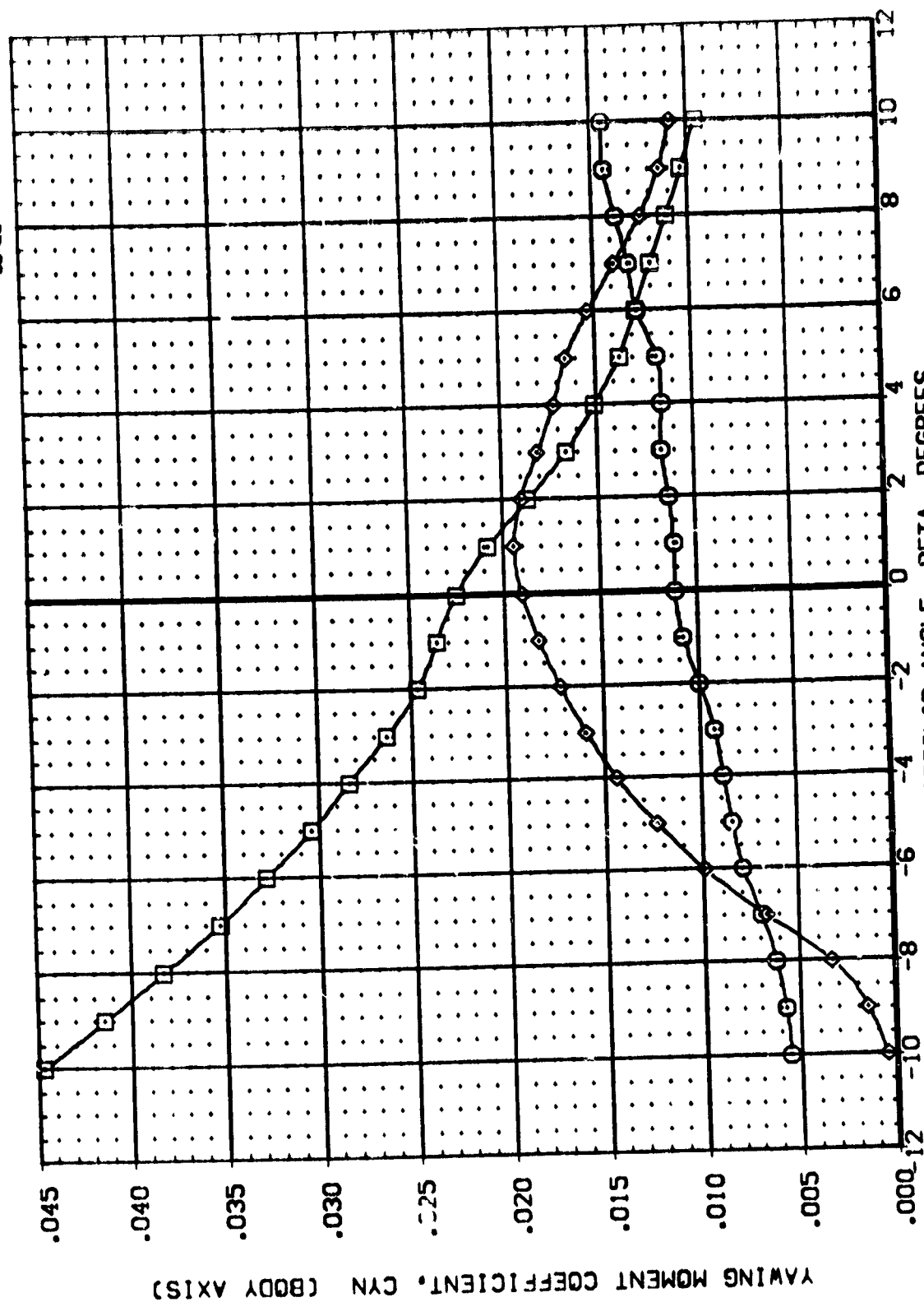
BRREF 1750.3000 IN.

XRREF 1167.0000 IN.

YRREF 400.0000 IN.

ZRREF 400.0000 IN.

SCALE .0100

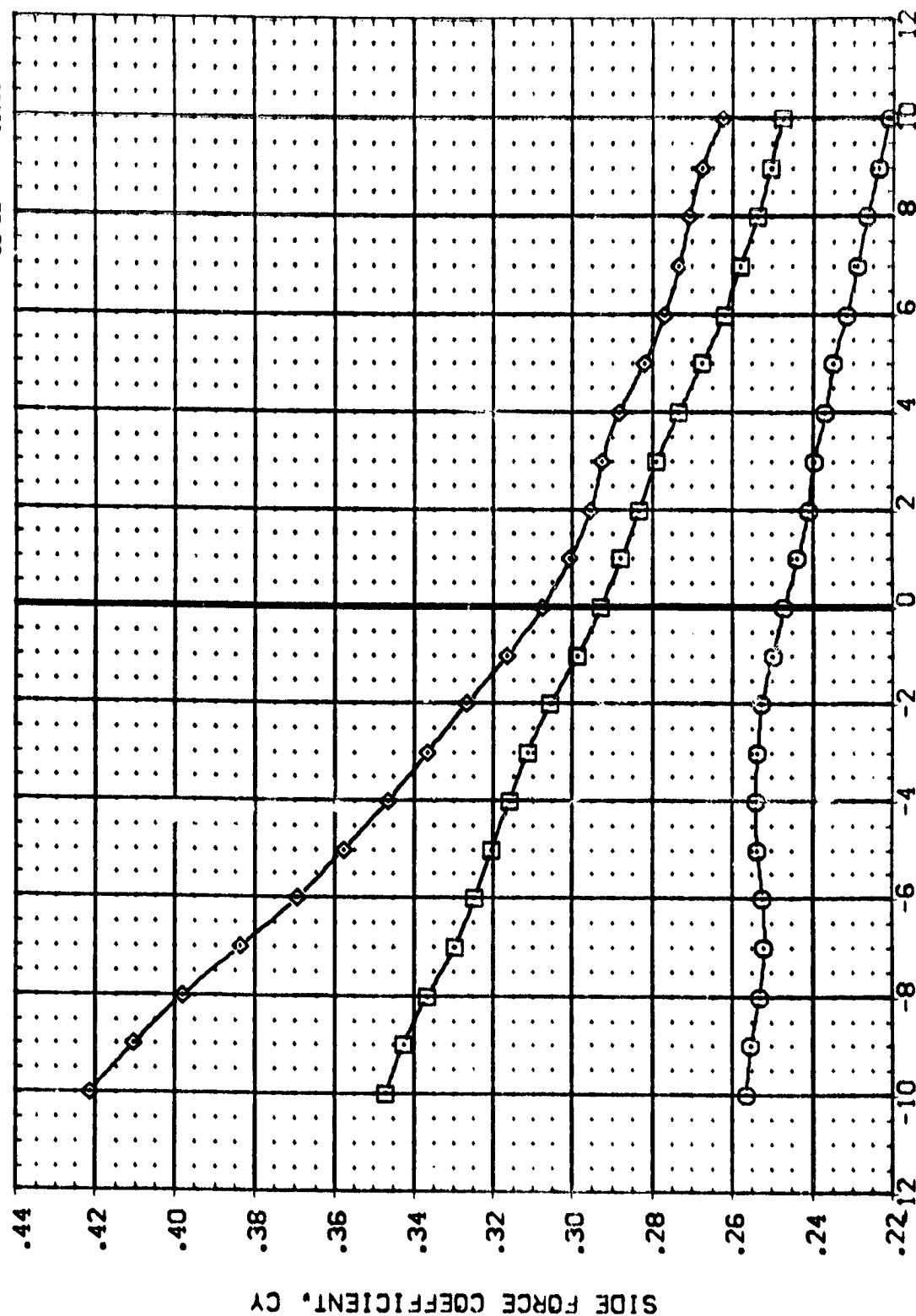


EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACT. (RN/L=1.76, PT-JET=750)

CALMACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STL037) AEDC VA-422(1A-57): ORB/ET V/80TH SRB
 (STL048) AEDC VA-422(1A-57): ORB/ET V/80TH SRB
 (STL059) AEDC VA-422(1A-57): ORB/ET V/80TH SRB

SERIES RV/L PT-JET ALPHA REFERENCE INFORMATION
 1.100 1.760 750.000 .000 SREF 2690.0000 SQ.FT.
 2.200 1.760 750.000 .000 LREF 1290.3000 IN.
 3.300 1.760 750.000 .000 BRFF 1290.3000 IN.
 X16P 1.67.0000 IN. XS
 Y16P .0000 IN. YS
 Z16P 400.0000 IN. ZS
 SCALE .0100



SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=1.76, PT-JET=750)

CALMACH = 4.50

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NOT A MEMBER? NOT A PROBLEM

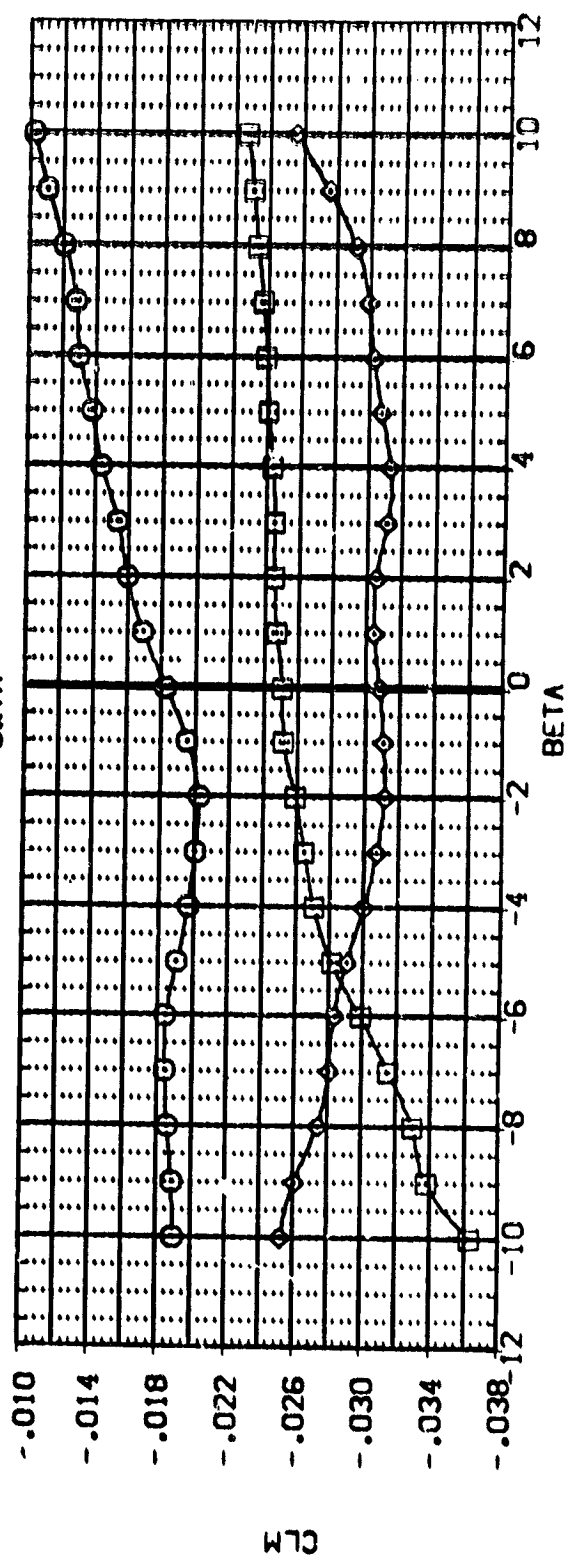
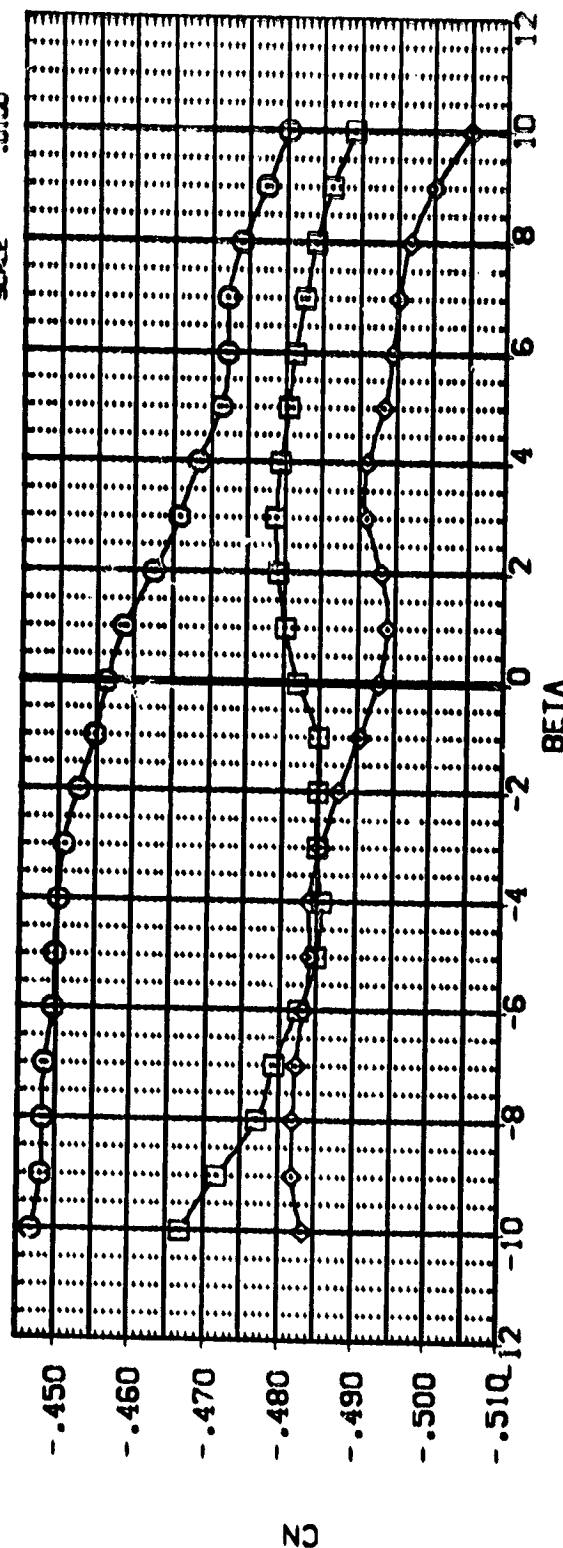
[STLO37]	AEDC	VA-422(1A-57).	0RB/EI	V/BOTH	SRB
[STLO:8]	AEDC	VA-422(1A-57).	0RB/EI	V/BOTH	SRB
[STLO59]	AEDC	VA-422(1A-57).	0RB/EI	V/BOTH	SRB

2005

	NOVA	PAGE
1.100	1.760	750.000
2.200	1.760	750.000
3.300	1.760	750.000

ALPHA

	REFERENCE	PER ORATION	50 FT.
SREF	2690.0000	IN.	XS
LREF	1290.3000	IN.	YS
BREF	1290.3000	IN.	ZS
XREF	1167.0000	IN.	
YREF	0.0000	IN.	
ZREF	400.0000	IN.	
SCALE	0.0100		



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTER. (RN/L=1.76, PT-JET=750)

$$[A]_{\text{max}} = 4.50$$

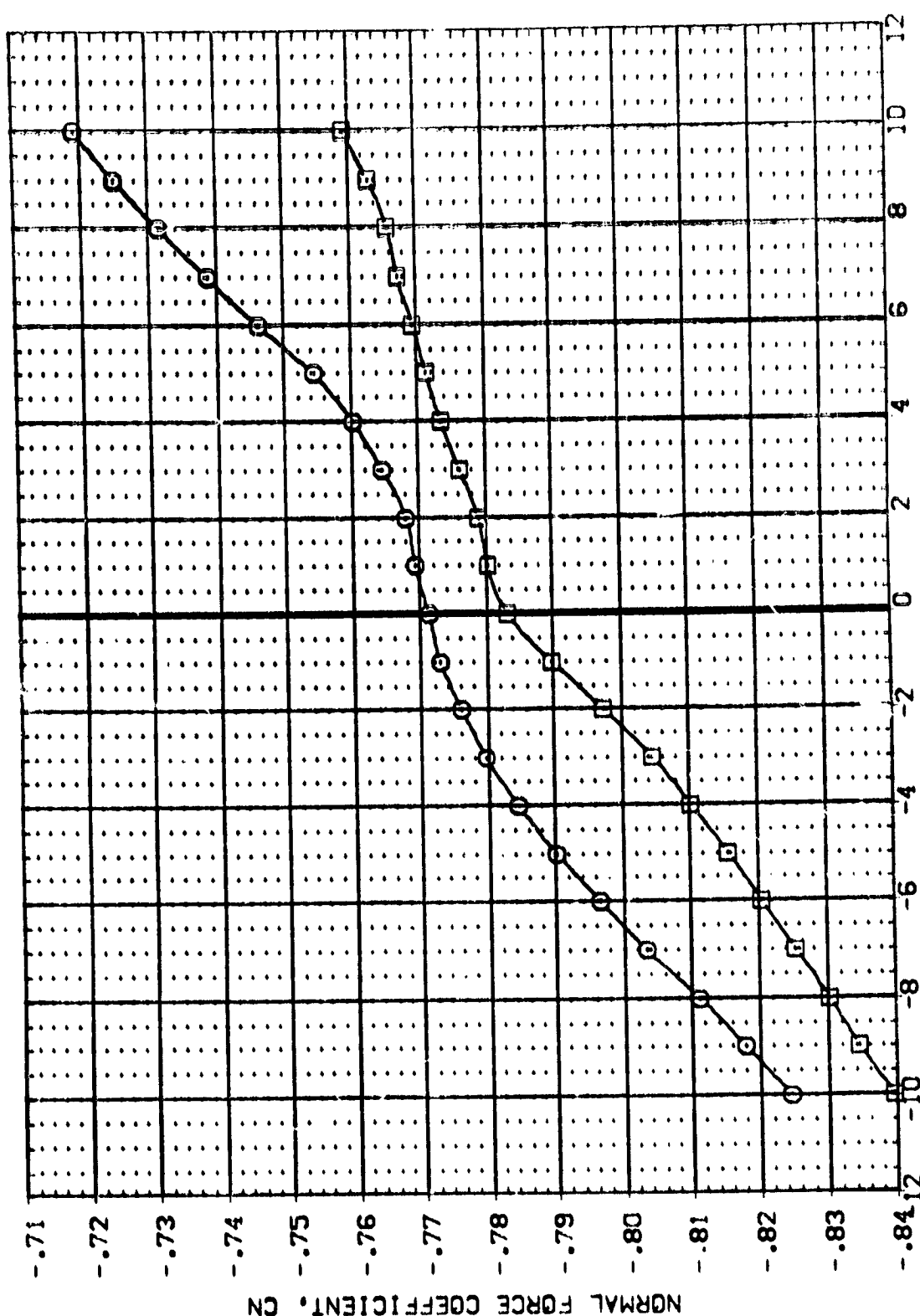
525
141
150
151

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL: [SYMBOL]
 CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
 AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRB POS: 2.700 2.080 1500.000
 3.300 2.080 1500.000
 PT-JET: .000
 BETA: .000

REFERENCE INFORMATION:
 SREF: 2690.0000 50.00
 LREF: 1.67 2.00
 SREF: 1.67 2.00
 VREF: 1.67 2.00
 VREF: 1.67 2.00
 SCALE: 400.0000 10.00



EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (P/L=2.08)

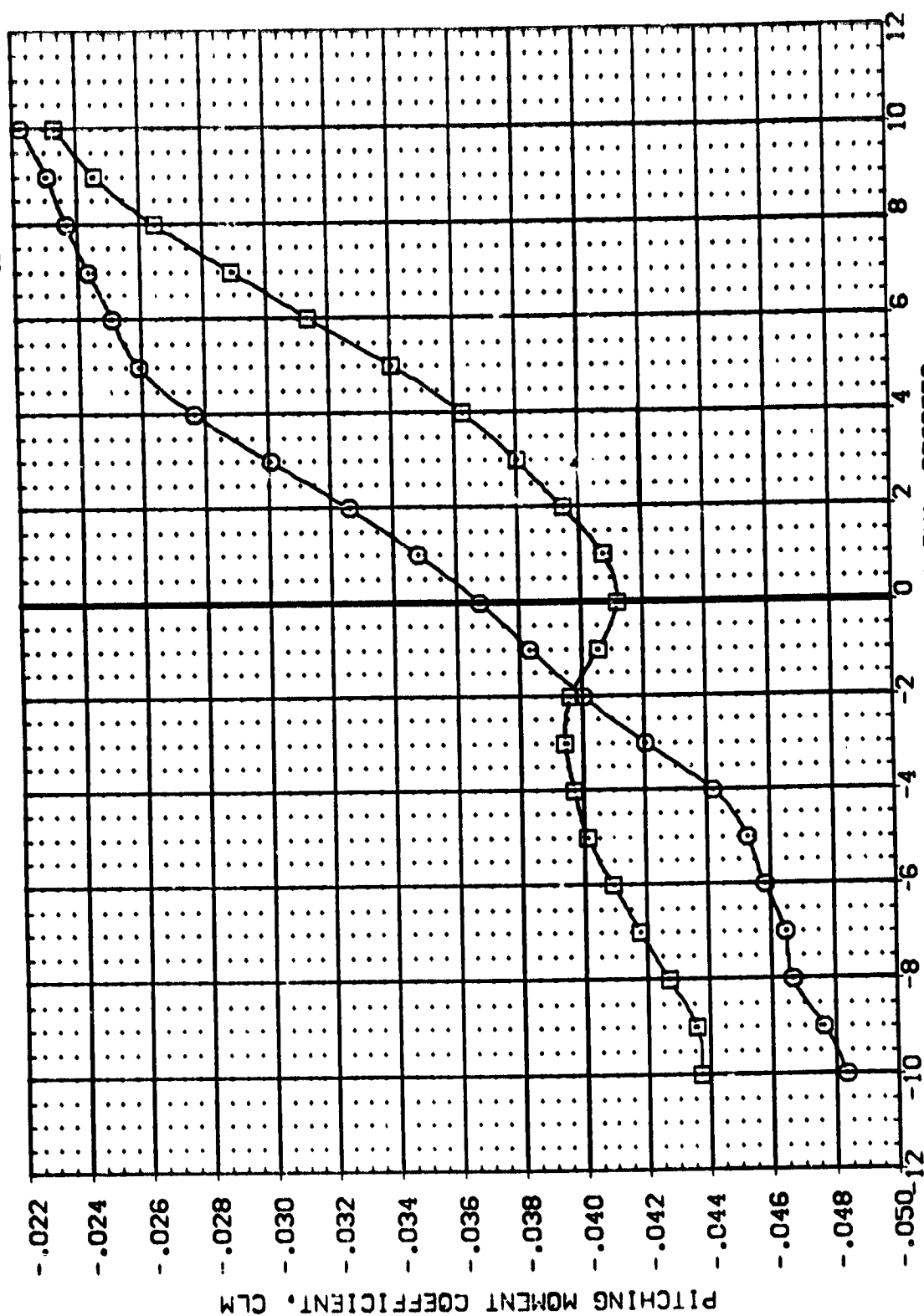
CAJ MACH = 4.50

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DATA SET SYMBOL: AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 (STL051) ☐ AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 (STL052) ☐

CONFIGURATION DESCRIPTION

SRB POS 2.200 2.300
 RV/L 2.080 1500 1500 1500
 PT-JET .000 .000
 BETA .000 .000
 REFERENCE INFORMATION
 SQ.FT. 2690.0000 1290.3000 1290.3000 1167.0000 400.0000
 IN. 1290.3000 1290.3000 1167.0000 400.0000
 IN. XS 1167.0000 400.0000
 IN. YS 400.0000
 IN. ZS 400.0000
 SCALE .0100



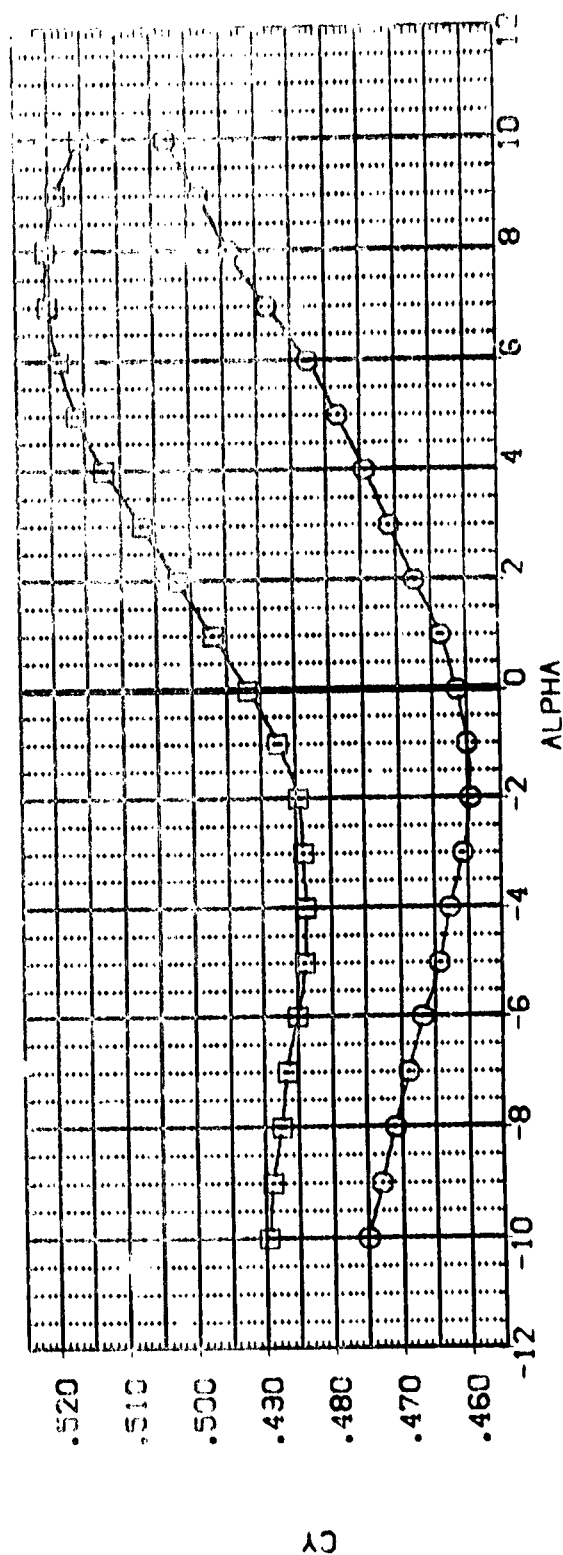
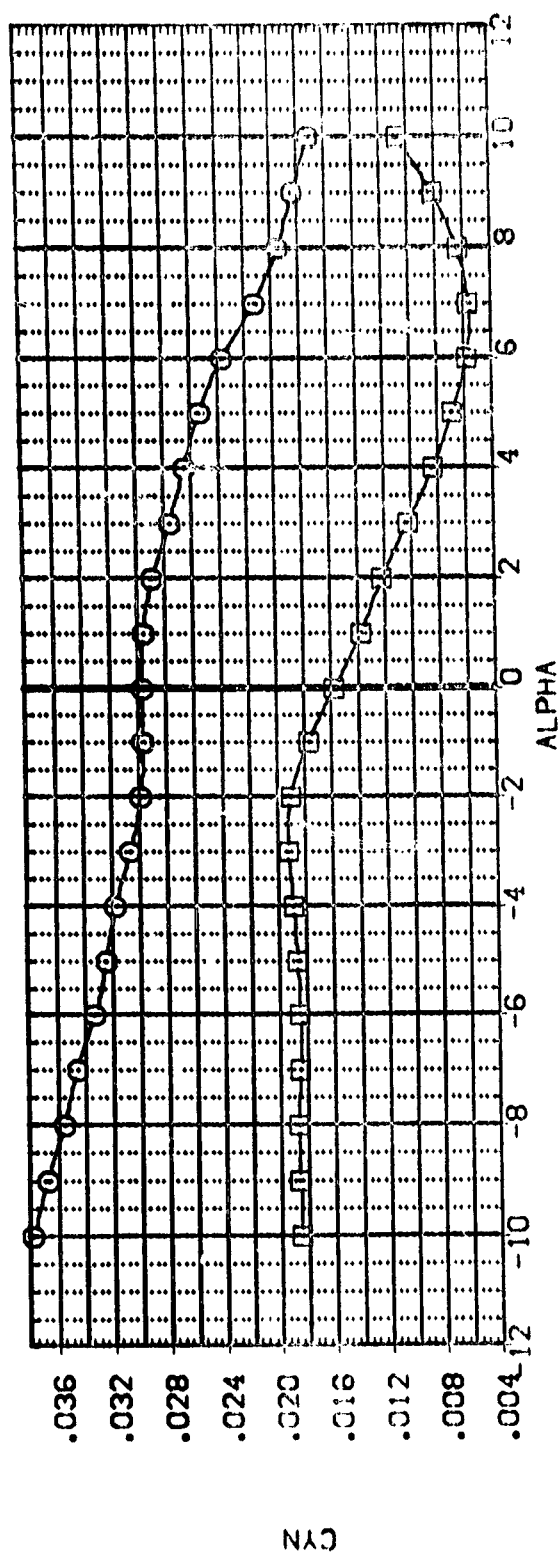
EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=2.08)

(A) MACH = 4.50

DATA SET SYMBOL: 8
 CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57); ORB/ET W/BOTH SRB
 AEDC VA-422(1A-57); ORB/ET W/BOTH SRB

SRB POS: 2.200
 RV/L: 2.080
 PT-JET: 1500.000
 BETA: .000

REFERENCE INFORMATION:
 SREF: 2330.0000
 LREF: 1290.3000
 BREF: 1290.3000
 XPRP: 1167.0000
 YPRP: 400.0000
 ZPRP: 400.0000
 SCALE: .0100

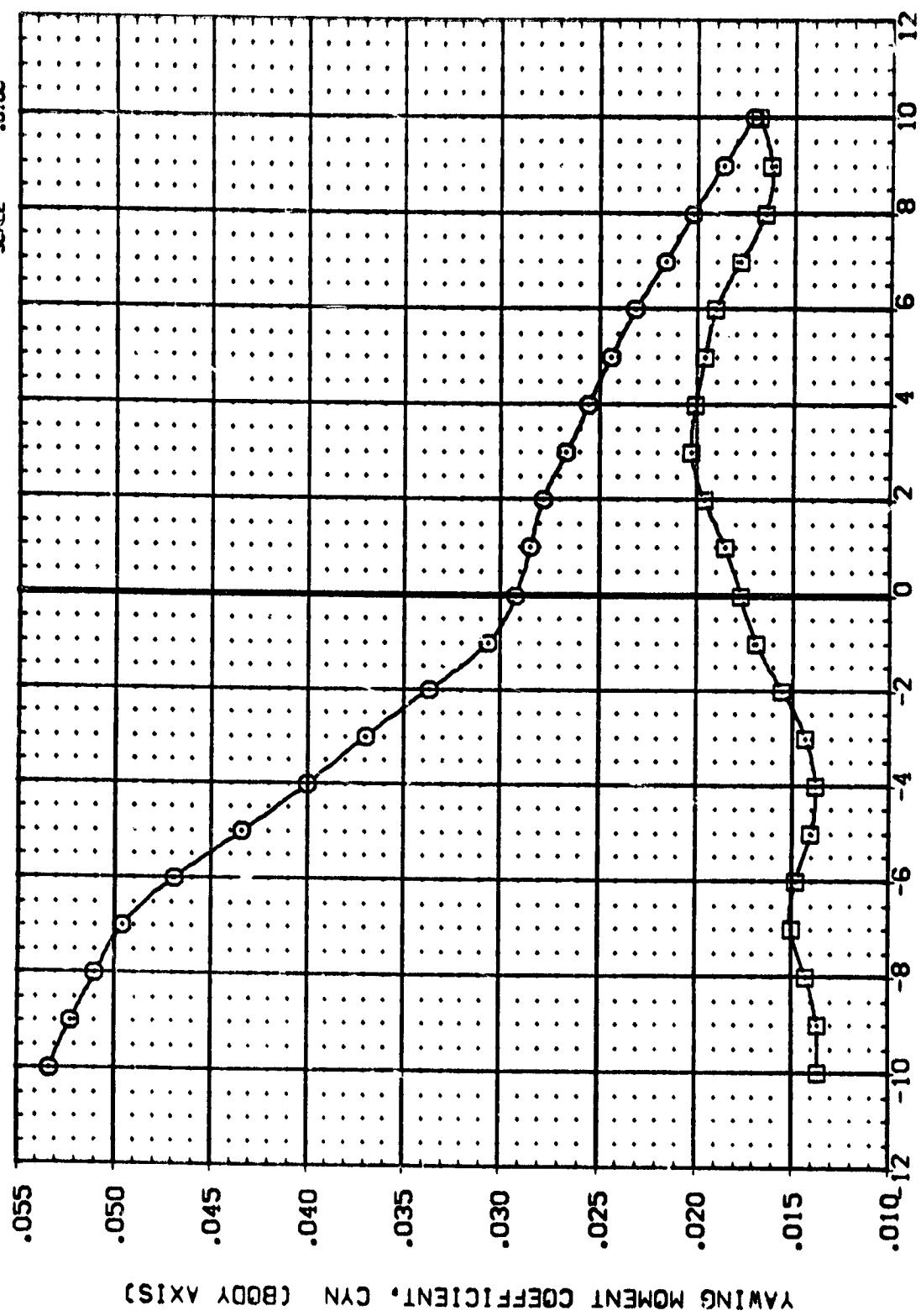


EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=2.08)

(A) MACH = 4.50

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L	PT-JET	ALPHA	REFERENCE INFORMATION	
(STL052)	(STL053)	AEDC VA-422(1A-57)	ORB/ET V/BOTH SRB	2-200	3-300	2.080	1500.000	.000	SREF	2690.0000
		AEDC VA-422(1A-57)	ORB/ET V/BOTH SRB			2.080	1500.000	.000	LREF	1290.3000
									BREF	1290.3000
									XMRP	1167.0000
									YMRP	.0000
									ZMRP	400.0000
									SCALE	.0100

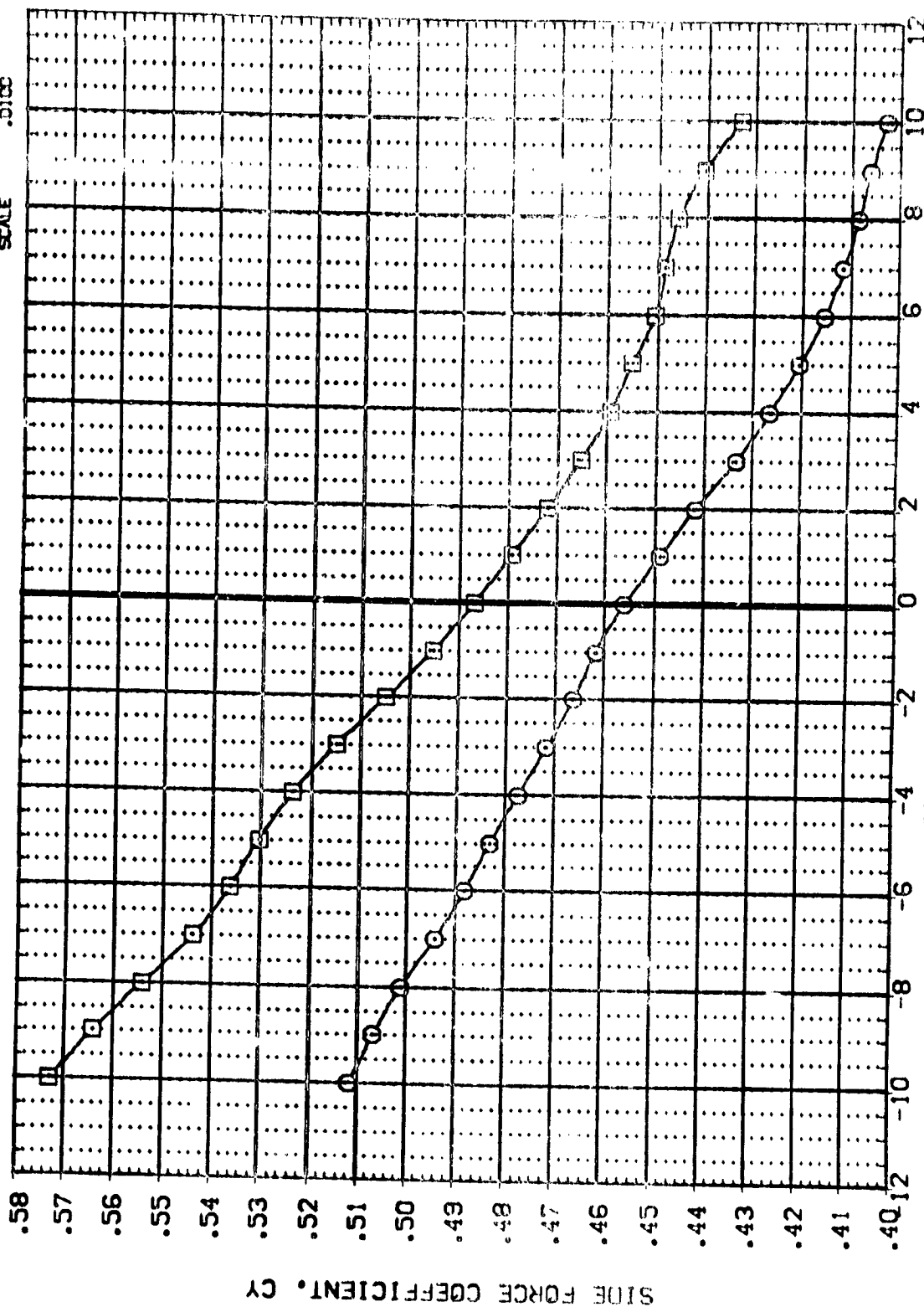


EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=2.08)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STLOS2) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (STLOS3) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
 2.200 2.080 1500.000 .000
 3.300 2.080 1500.000 .000

REFERENCE INFORMATION
 SREF 2930.0000 50.000
 LREF 2930.0000 50.000
 BREF 2930.0000 50.000
 XMRP 2930.0000 50.000
 YMRP 2930.0000 50.000
 ZMRP 2930.0000 50.000
 SCALE .0100

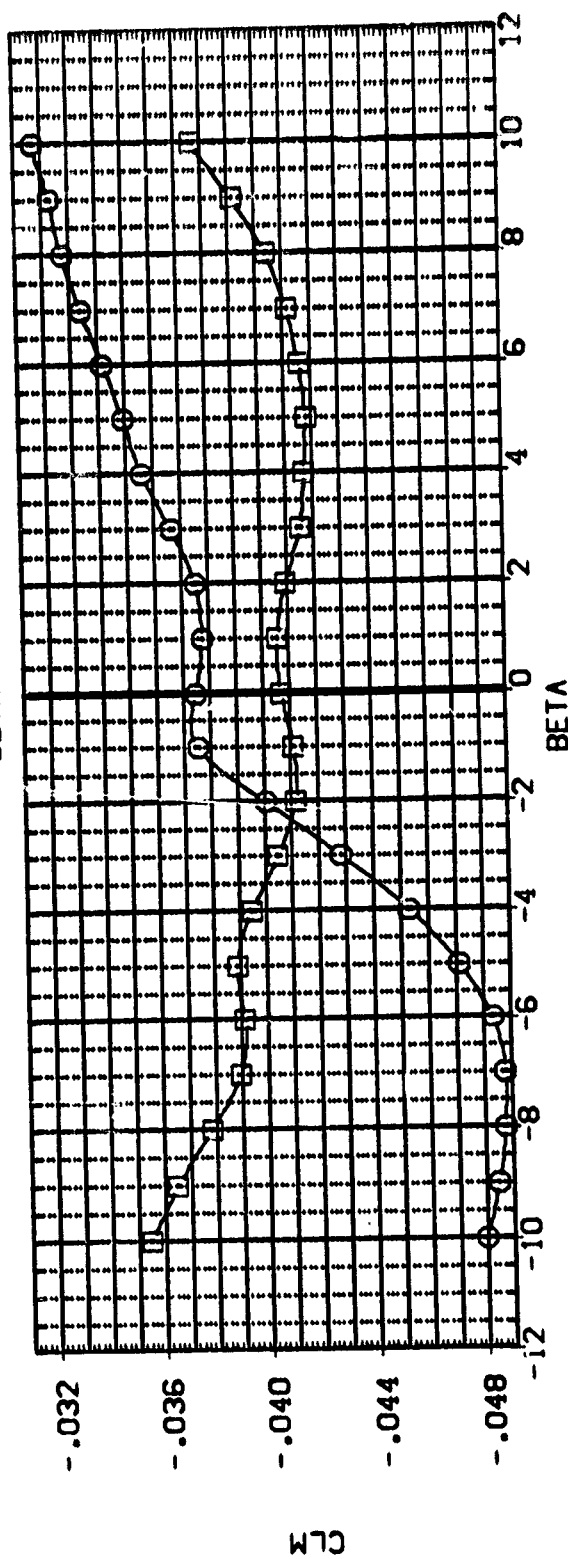
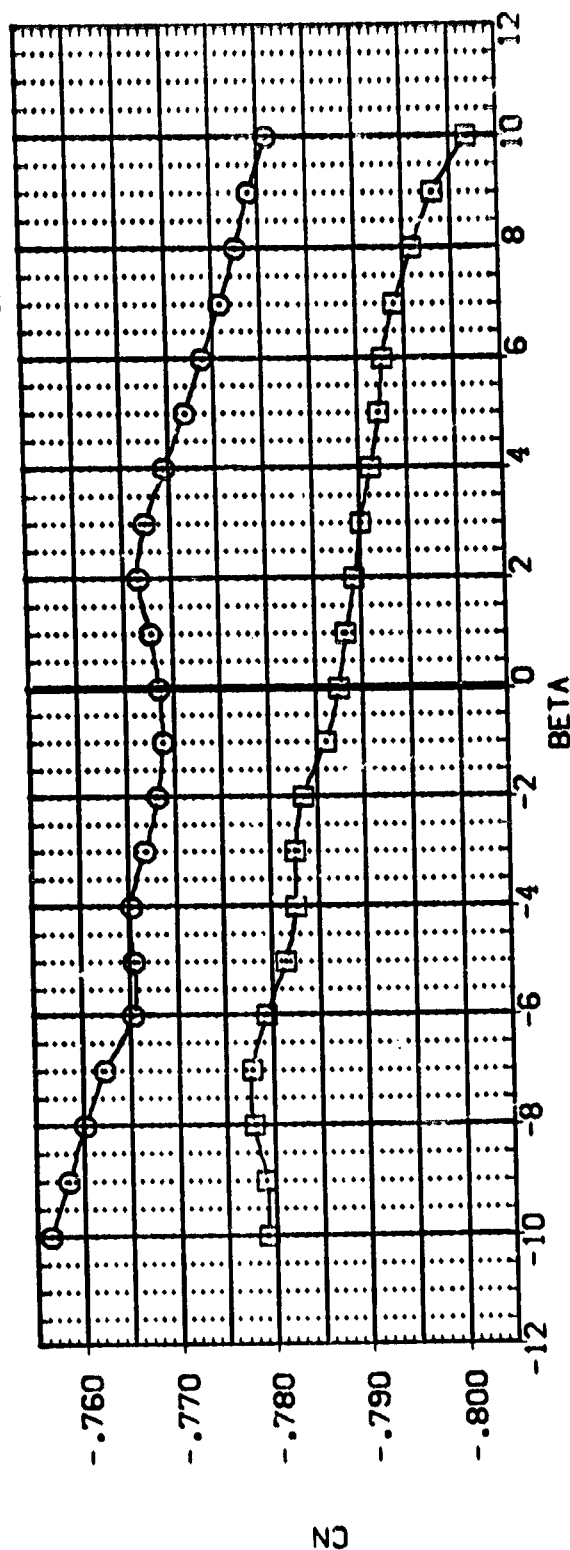


SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=2.3)

(A) MACH = 4.50

USE 230

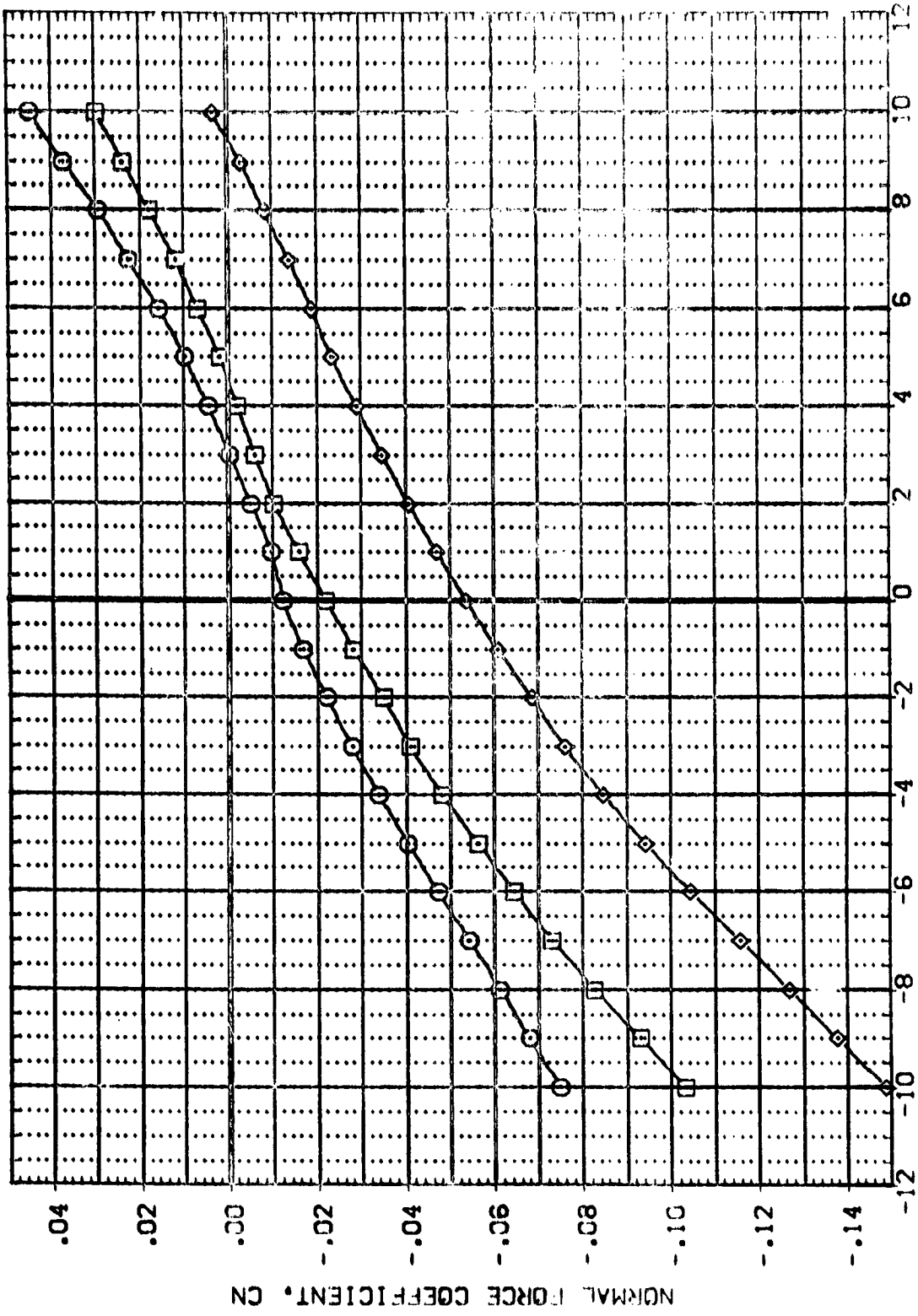
[illegible]

EFFECT OF SYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=2.08)

$$C_{AJMACH} = 4.50$$

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	BETA	REFERENCE INFORMATION
(STL034)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	1.100	1.750	.000	.000	SRF 2590.0000 SQ.F.
(STL045)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	2.200	1.750	.000	.000	SRF 1290.3000 IN.
(STL056)	AEDC VA-422(A-57); SRB/ET V/BOTH SRB	3.300	1.750	.000	.000	SRF 1290.3000 IN.
						SRF 1167.0000 IN.
						YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100

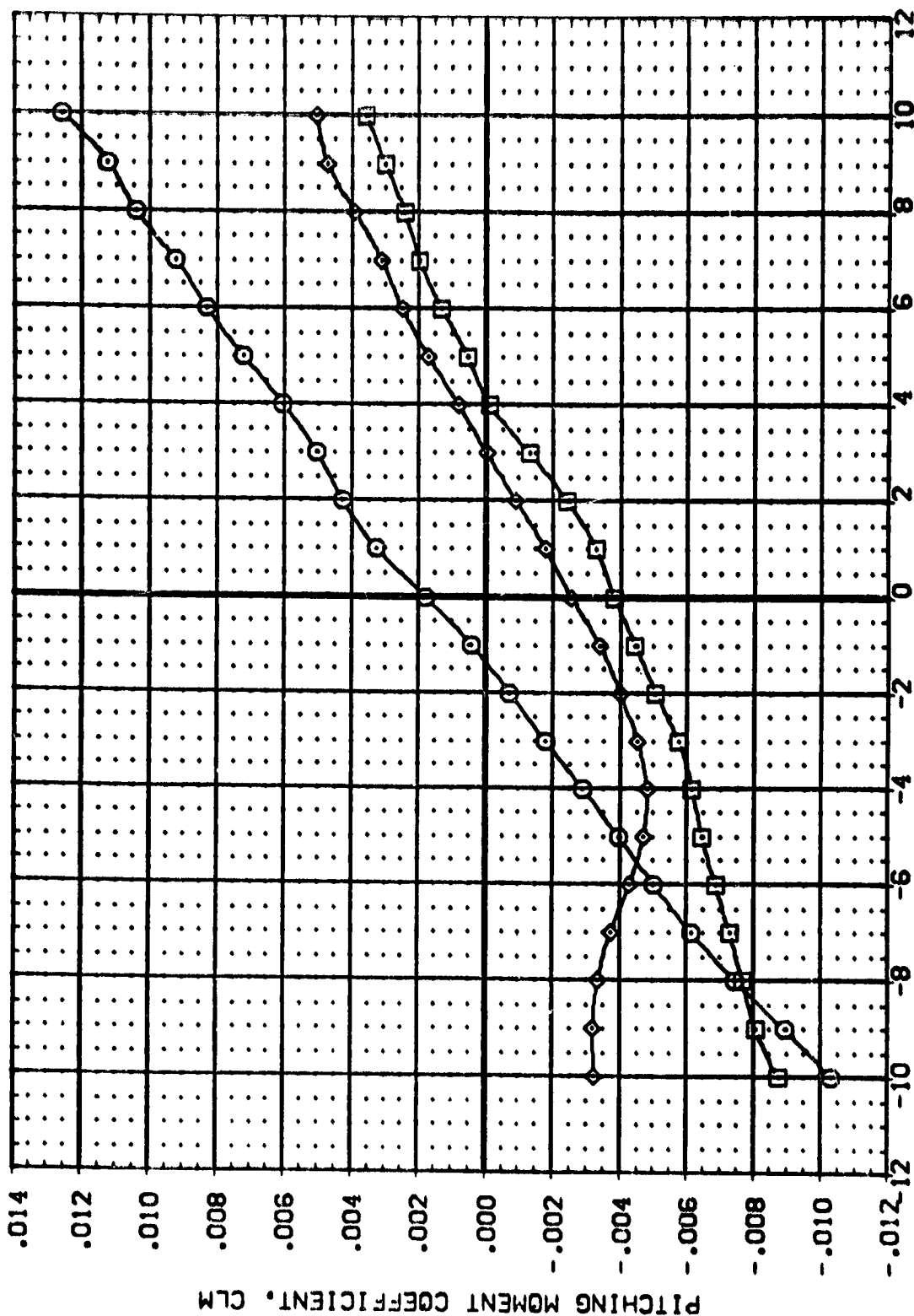


EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACTER. (RVL=1.76)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RV/L	PT-JET	BETA	REFERENCE INFORMATION
{STL034}	AEDC VA-422(1A-57): ORB/ET V/80TH SRB	1.100	1.760	.000	.000	SREF 2690.0000 IN. XS
{STL045}	AEDC VA-422(1A-57): ORB/ET V/80TH SRB	2.200	1.760	.000	.000	BREF 1290.3000 IN. XS
{STL056}	AEDC VA-422(1A-57): ORB/ET V/80TH SRB	3.300	1.760	.000	.000	BREF 1290.3000 IN. XS
						YREF 1167.0000 IN. XS
						ZREF 400.0000 IN. XS
						SCALE .0100



EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RN/L=1.76)

(A)MACH = 4.50

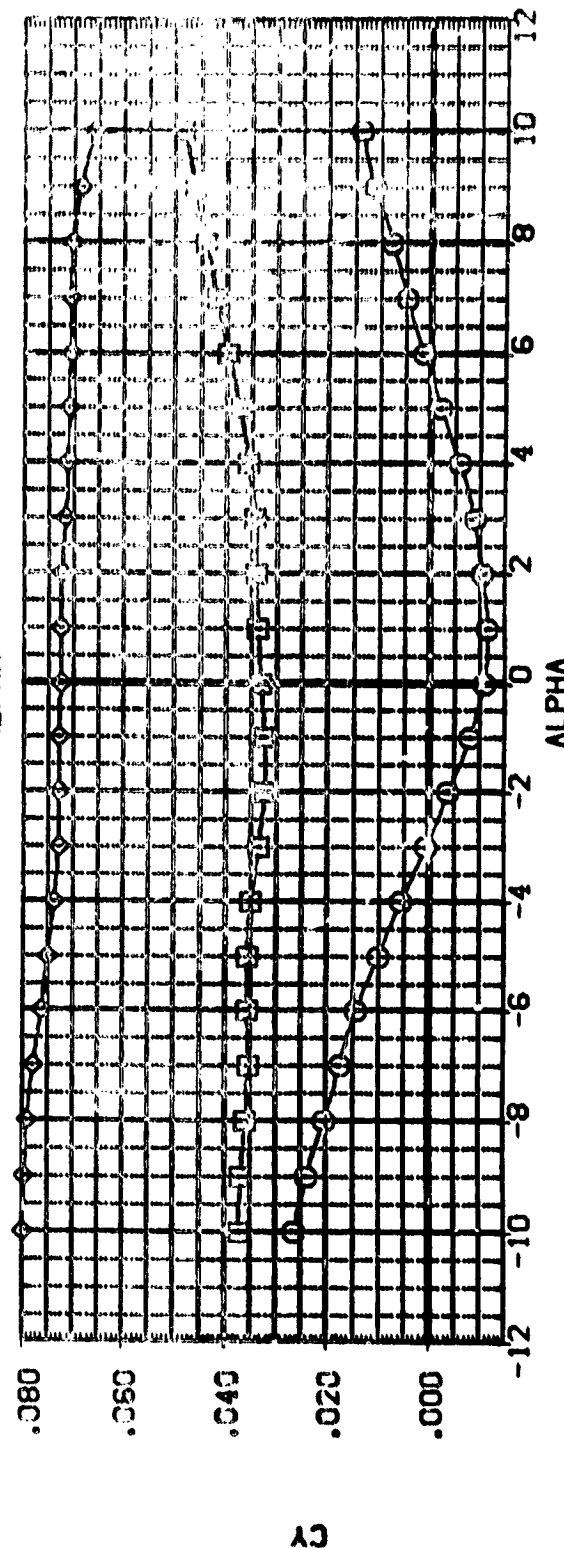
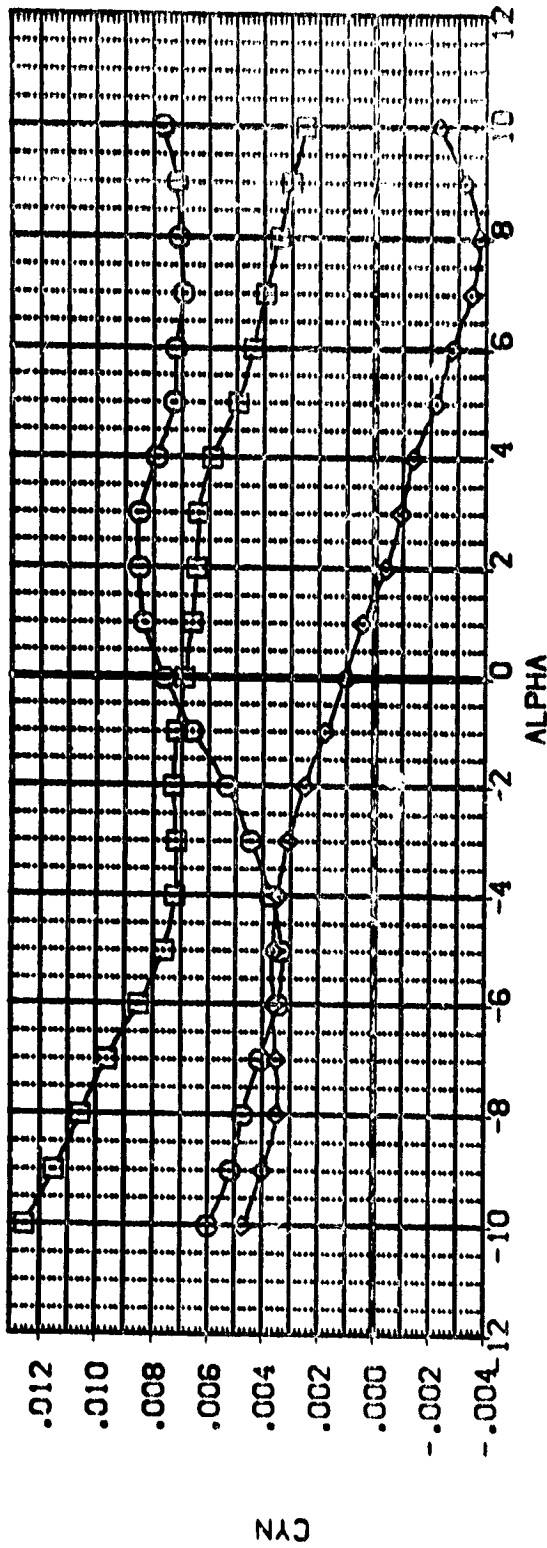
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ORIGINAL PAGE IS POOR

DATA SET SYMBOL

(STL034) AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 (STL045) AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 (STL056) AEDC VA-422(1A-57), ORB/ET V/80TH SRB

SRBPOS 1.100
 2.200
 3.300

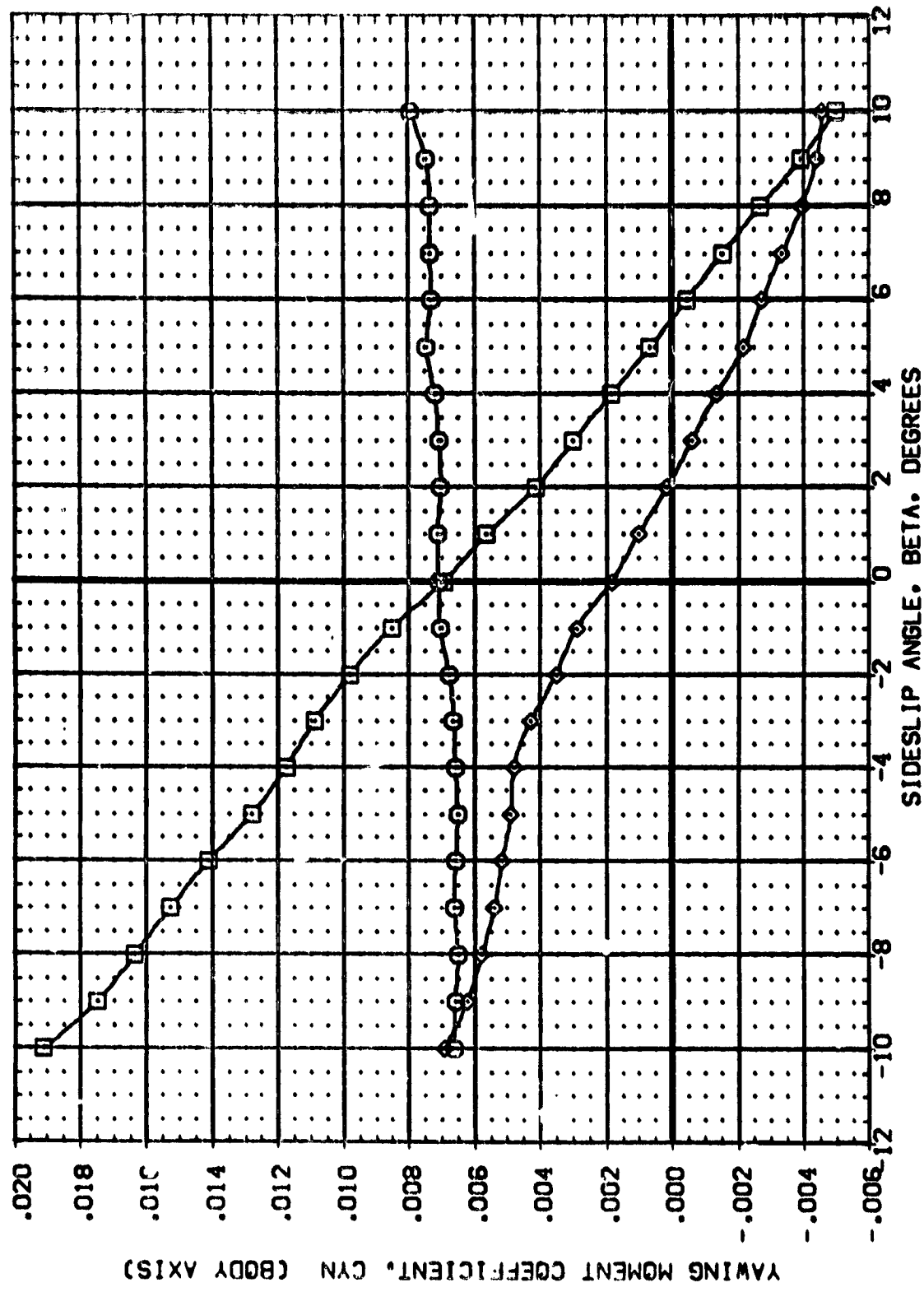
REFERENCE INFORMATION
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 LREF 1250.0000 12.50
 SREF 1250.0000 12.50
 XREF 1157.0000 11.57
 YREF 400.0000 40.00
 ZREF 400.0000 40.00
 SCALE .0100



EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RNVL=1.75)

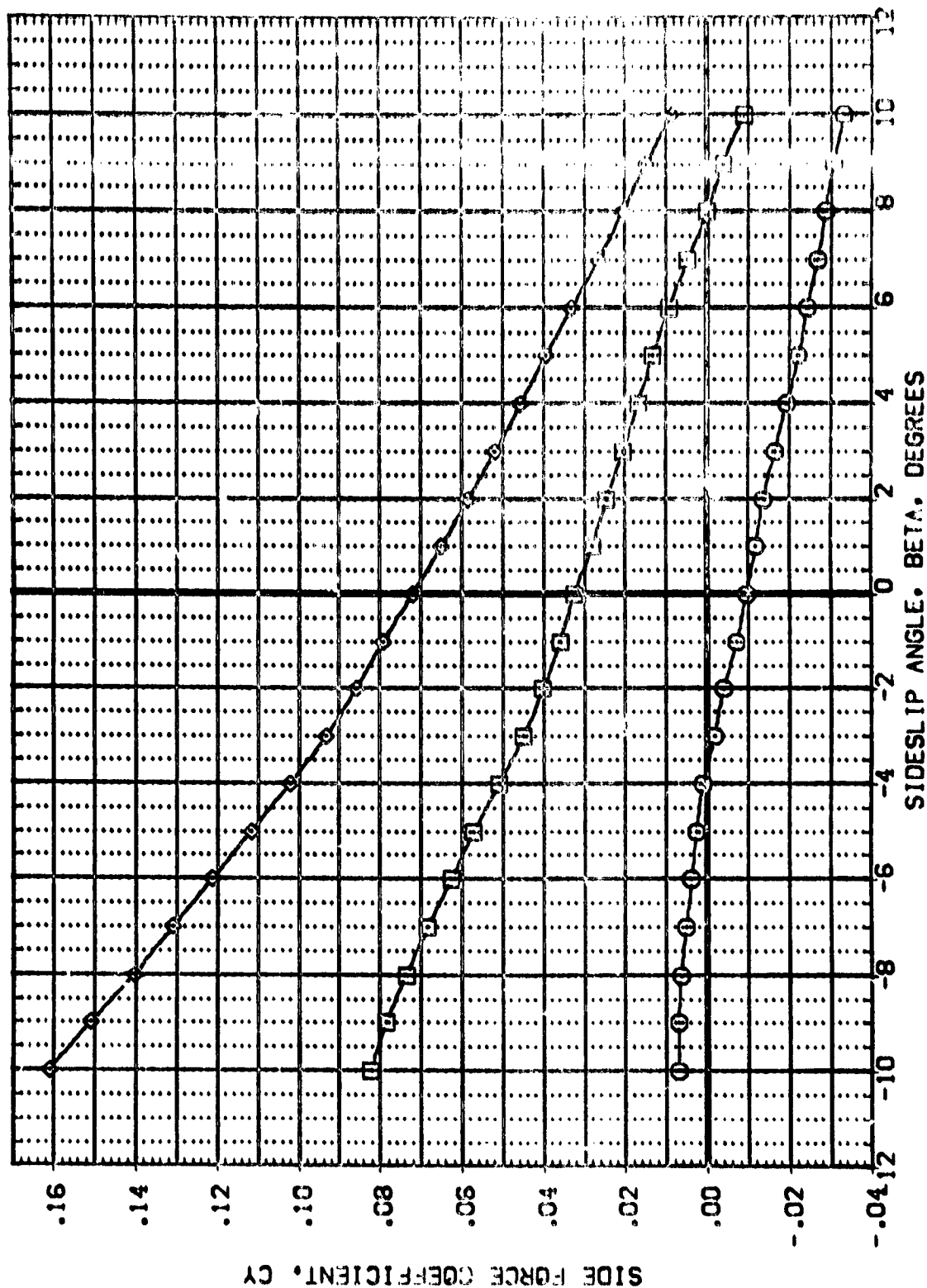
(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRSPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(STL035)	AECC VA-422(1A-57): GR3/JET V/BOOTH SRB	1.100	1.760	.000	.000	SREF 2500.0000 SQ.FT.
(STL045)	AECC VA-422(1A-57): GRB/JET V/BOOTH SRB	2.200	1.760	.000	.000	LREF 1250.0000 IN.
(STL057)	AECC VA-422(1A-57): GRB/JET V/BOOTH SRB	3.300	1.760	.000	.000	BREF 1250.0000 IN.
						XREF 1167.0000 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0100



EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RN/L=1.76)

(A)MACH = 4.50

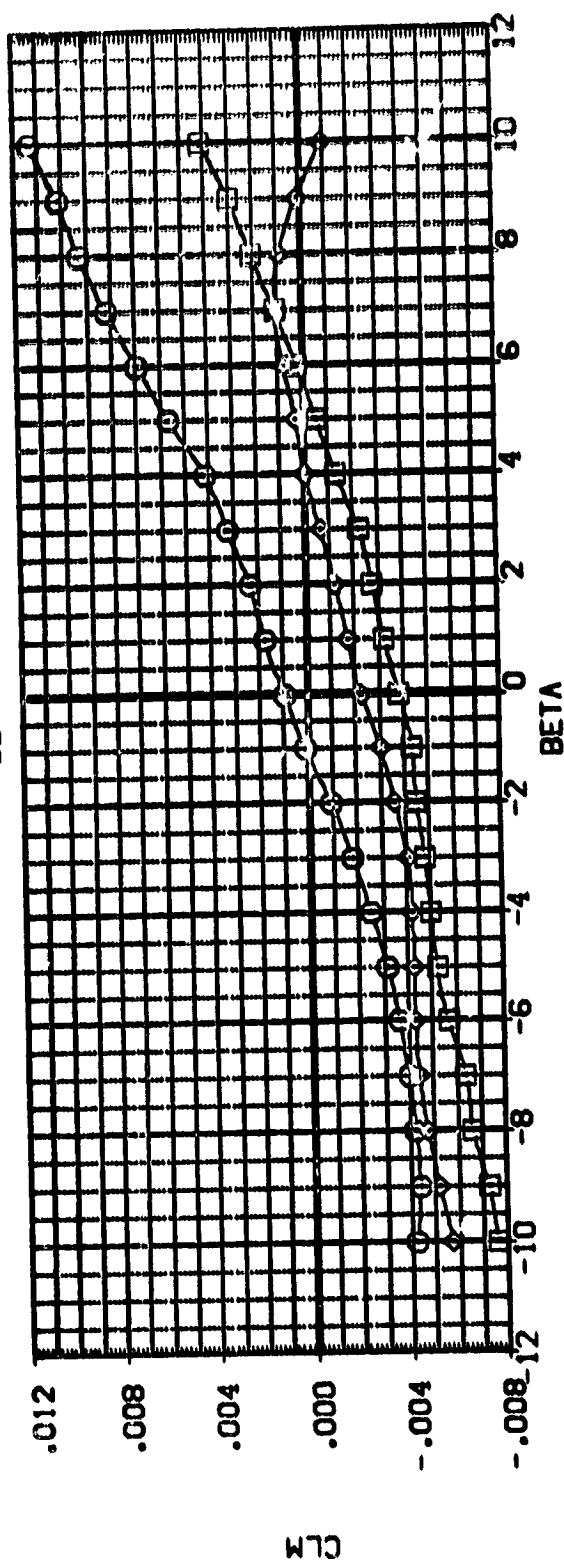
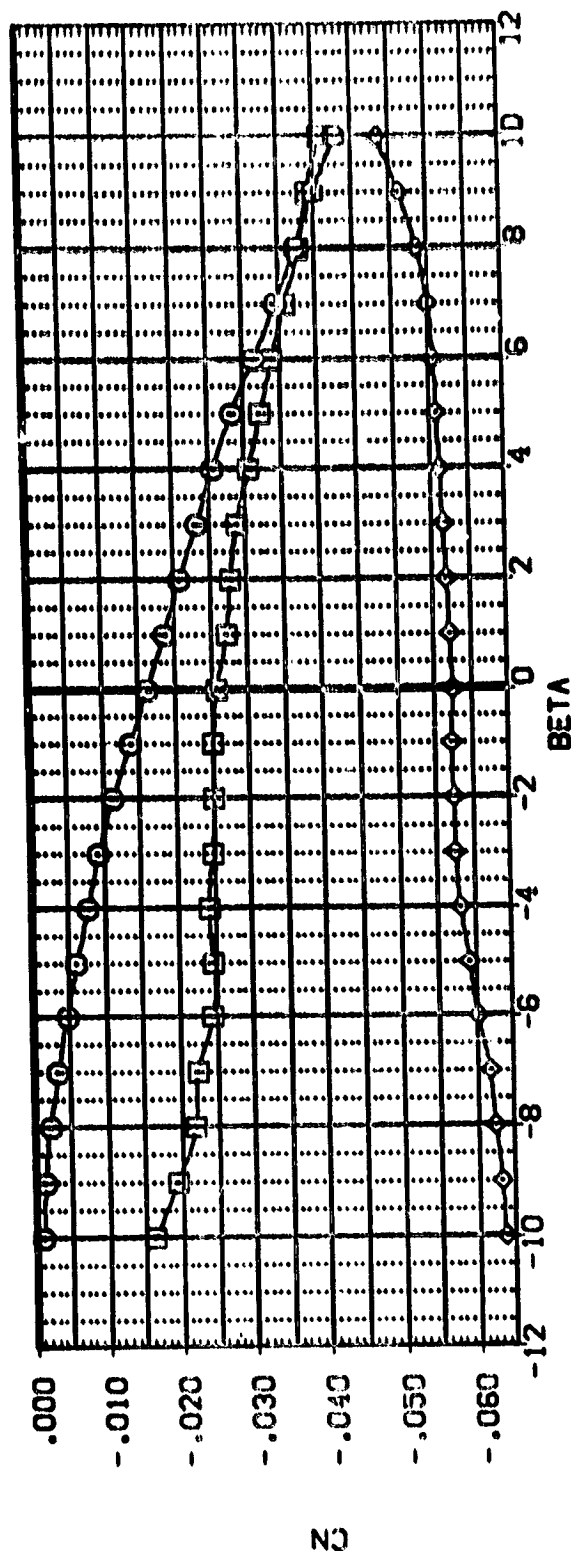
[illegible]

EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACTERISTICS. (PVT-1,763)

(A)MACH = 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(STLOS)	AEDC VA-422(1A-57). CRB/ET V/BOTH SRS
(STLOS)	AEDC VA-422(1A-57). CRB/ET V/BOTH SRS
(STLOS)	AEDC VA-422(1A-57). CRB/ET V/BOTH SRS



EFFECT OF SYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RN/L=1.76)

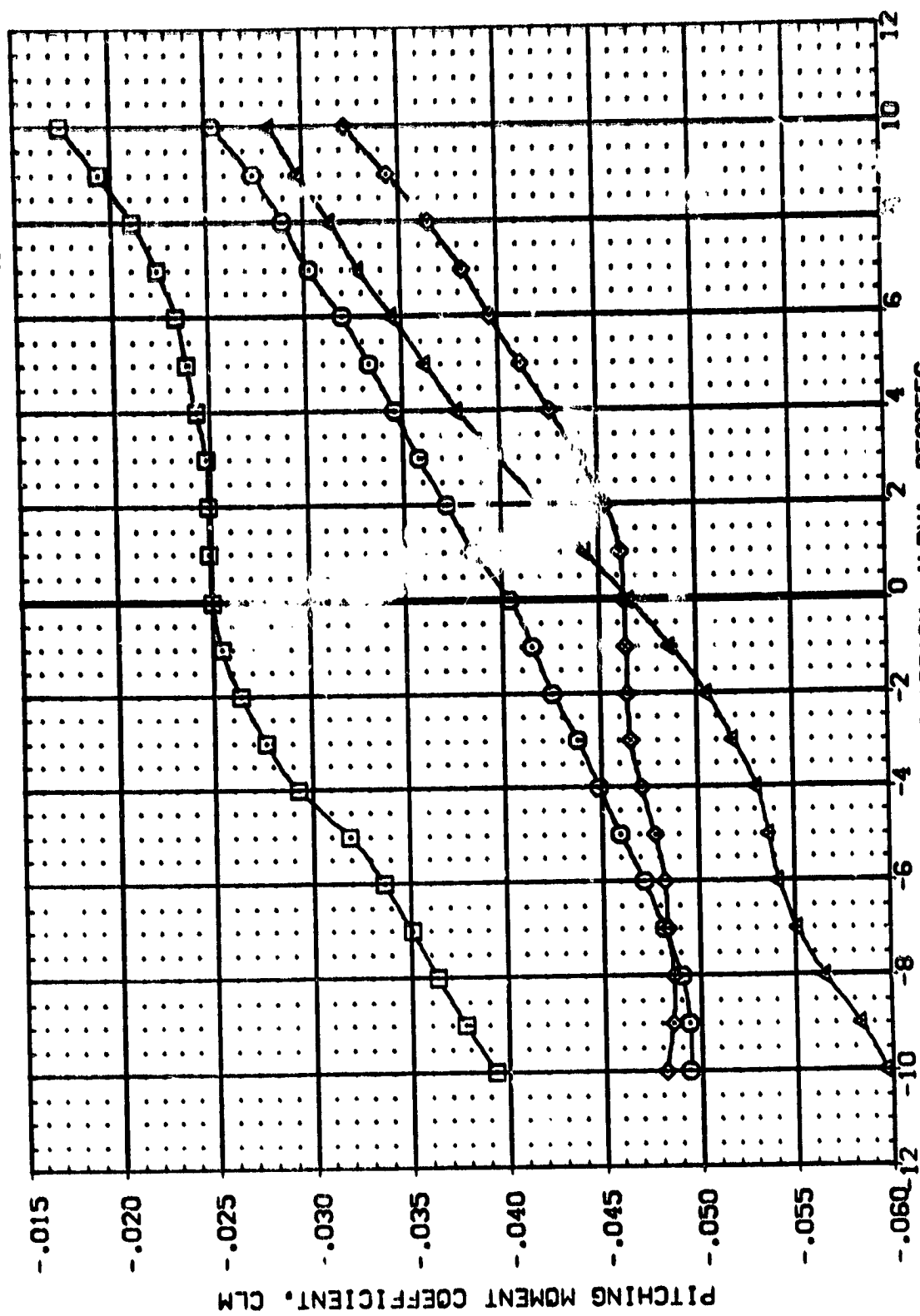
$$[A]_{MACH} = 4.50$$

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ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	BETA	REFERENCE INFORMATION
(STL068)	AEDC VA-422(1A-57). SRB/ET V/BOOTH SRB	1.200	1.780	1500.000	.000	SREF 2550.0000 30.47.
(STL072)	AEDC VA-422(1A-57). SRB/ET V/BOOTH SRB	2.100	1.780	1500.000	.000	LREF 1250.3000 11.
(STL076)	AEDC VA-422(1A-57). SRB/ET V/BOOTH SRB	3.200	1.780	1500.000	.000	BREF 1250.3000 11.
(STL080)	AEDC VA-422(1A-57). SRB/ET V/BOOTH SRB	3.200	1.780	1500.000	.000	XREF 1157.0000 11.
						YREF 400.0000 11.
						ZREF 400.0000 11.
						SCALE .0100

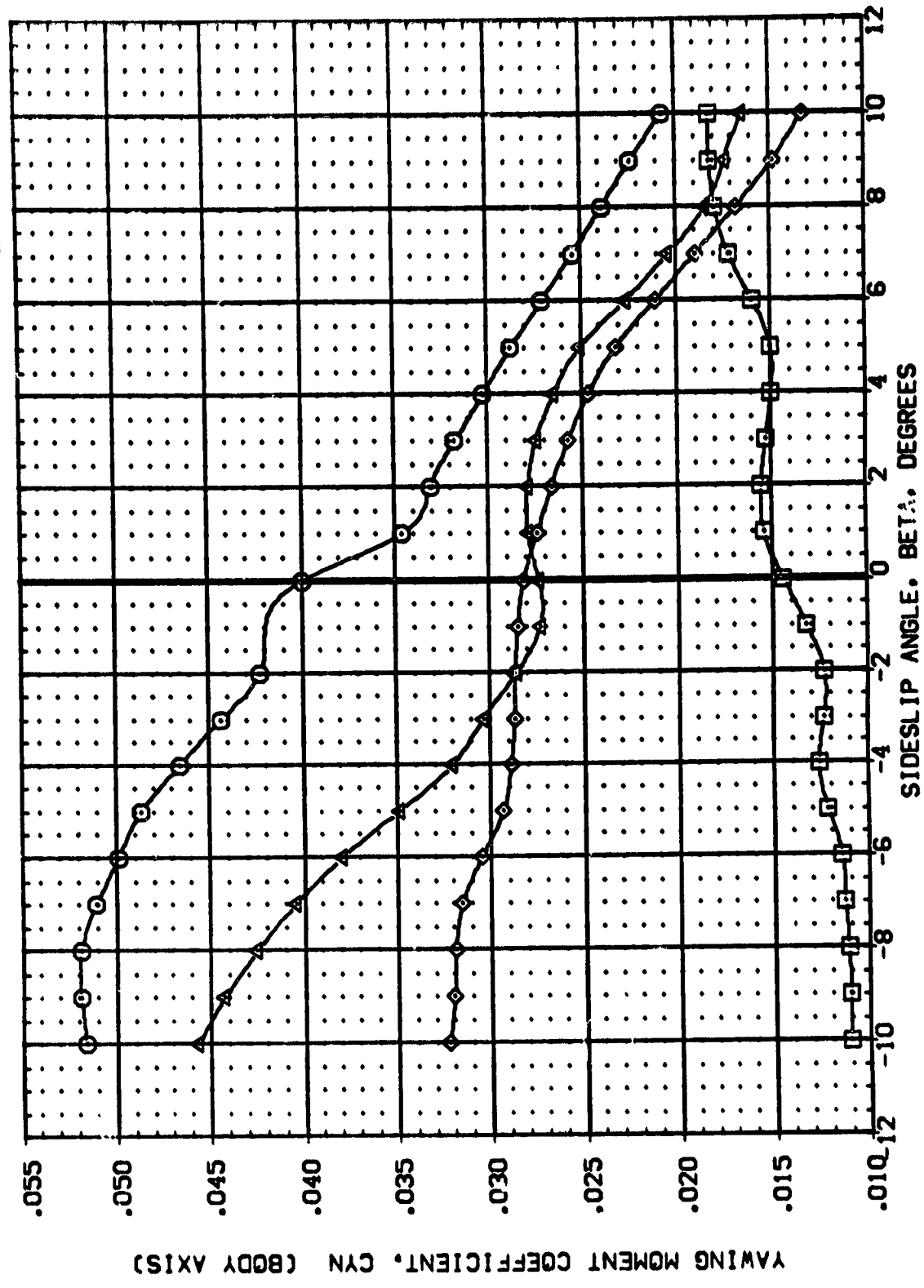


EFFECT OF UNSYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (CONTINUED)

(A) MACH = 4.50

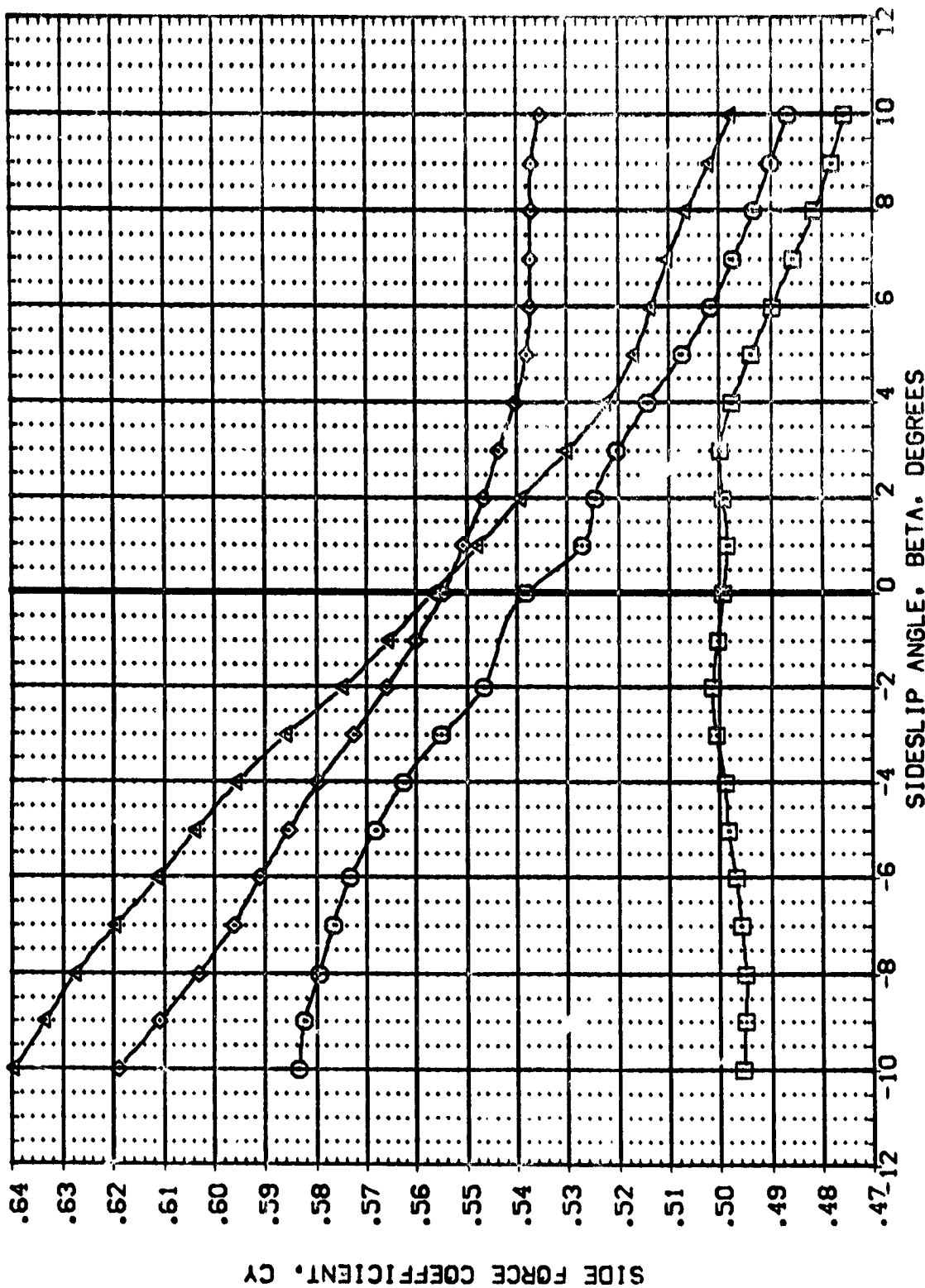
PAGE 239

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(S1L063)	□	AEDC VA-422(1A-57): CRB/ET	V/BOOTH SRB	1.200	1.760	1500.000	.000	SREF	1690.0000	50. FT.			
(S1L073)	○	AEDC VA-422(1A-57): CRB/ET	V/BOOTH SRB	2.100	1.760	1500.000	.000	LREF	1290.3000	IN.			
(S1L077)	△	AEDC VA-422(1A-57): CRB/ET	V/BOOTH SRB	2.300	1.760	1500.000	.000	MRP	1167.0000	IN.			
(S1L081)	◇	AEDC VA-422(1A-57): CRB/ET	V/BOOTH SRB	3.200	1.760	1500.000	.000	YMRP	400.0000	IN.			
								ZMRP	400.0000	IN.			
								SCALE	.0100				



EFFECT OF UNSYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=1.76)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL059]	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	1.200	1.760	1500.000	.000	SREF 2650.0000 SG.FT.
[STL073]	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.100	1.760	1500.000	.000	LREF 1250.3000 IN.
[STL077]	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.300	1.760	1500.000	.000	BREF 1250.3000 IN.
[STL081]	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	3.200	1.760	1500.000	.000	XREF 1167.0000 IN.
						YREF 400.0000 IN.
						ZREF .0100 IN.
						SCALE

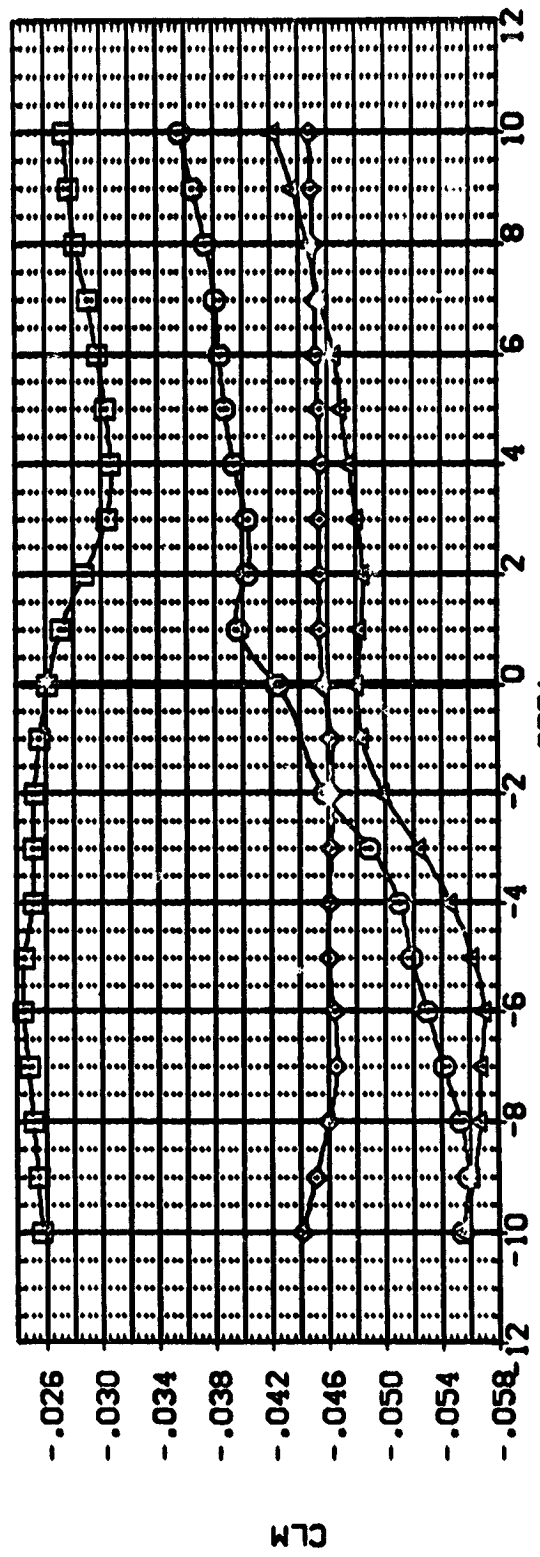
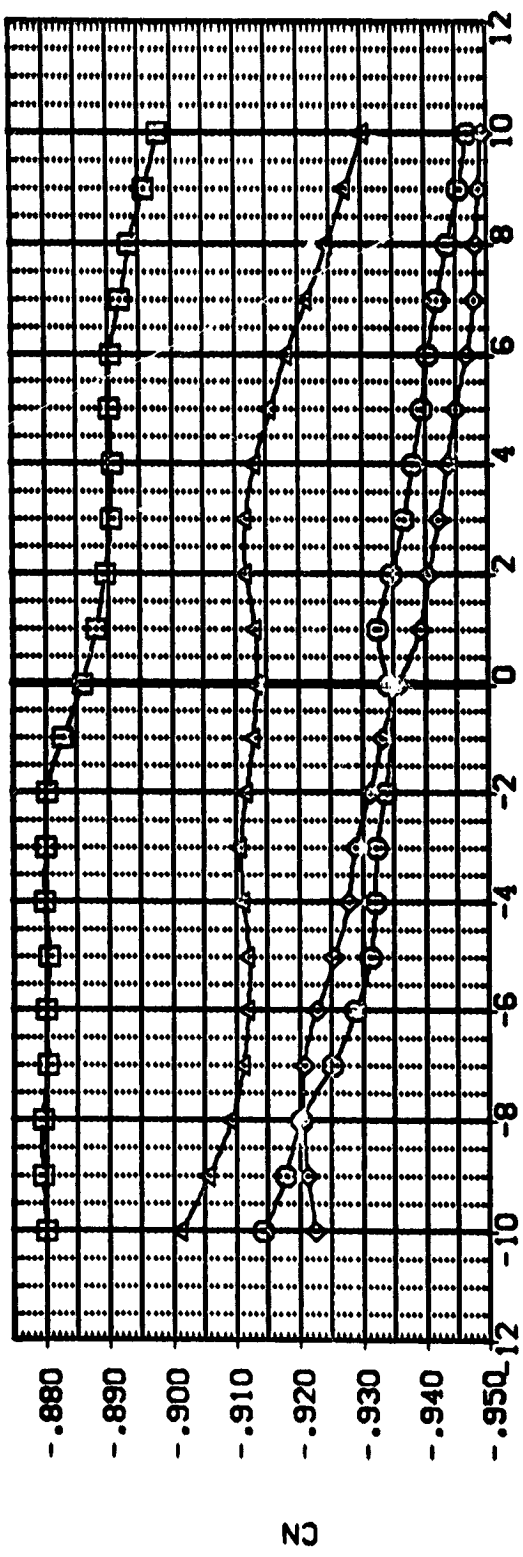


EFFECT OF UNSYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.76)

(A)MACH = 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB/PS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(S1069)	AEDC VA-422(1A-57). ORB/ET V/80TH SRB	1.200	1.760	1500.000	.000	SREF 2690.0000 SQ.FT.
(S1073)	AEDC VA-422(1A-57). ORB/ET V/80TH SRB	2.100	1.760	1500.000	.000	LREF 1290.3000 IN.
(S1077)	AEDC VA-422(1A-57). ORB/ET V/80TH SRB	2.300	1.760	1500.000	.000	BREF 1290.3000 IN.
(S1081)	AEDC VA-422(1A-57). ORB/ET V/80TH SRB	3.200	1.760	1500.000	.000	YREF 1167.0000 IN. XS
						ZREF 400.0000 IN. ZS
						SCALE .0100

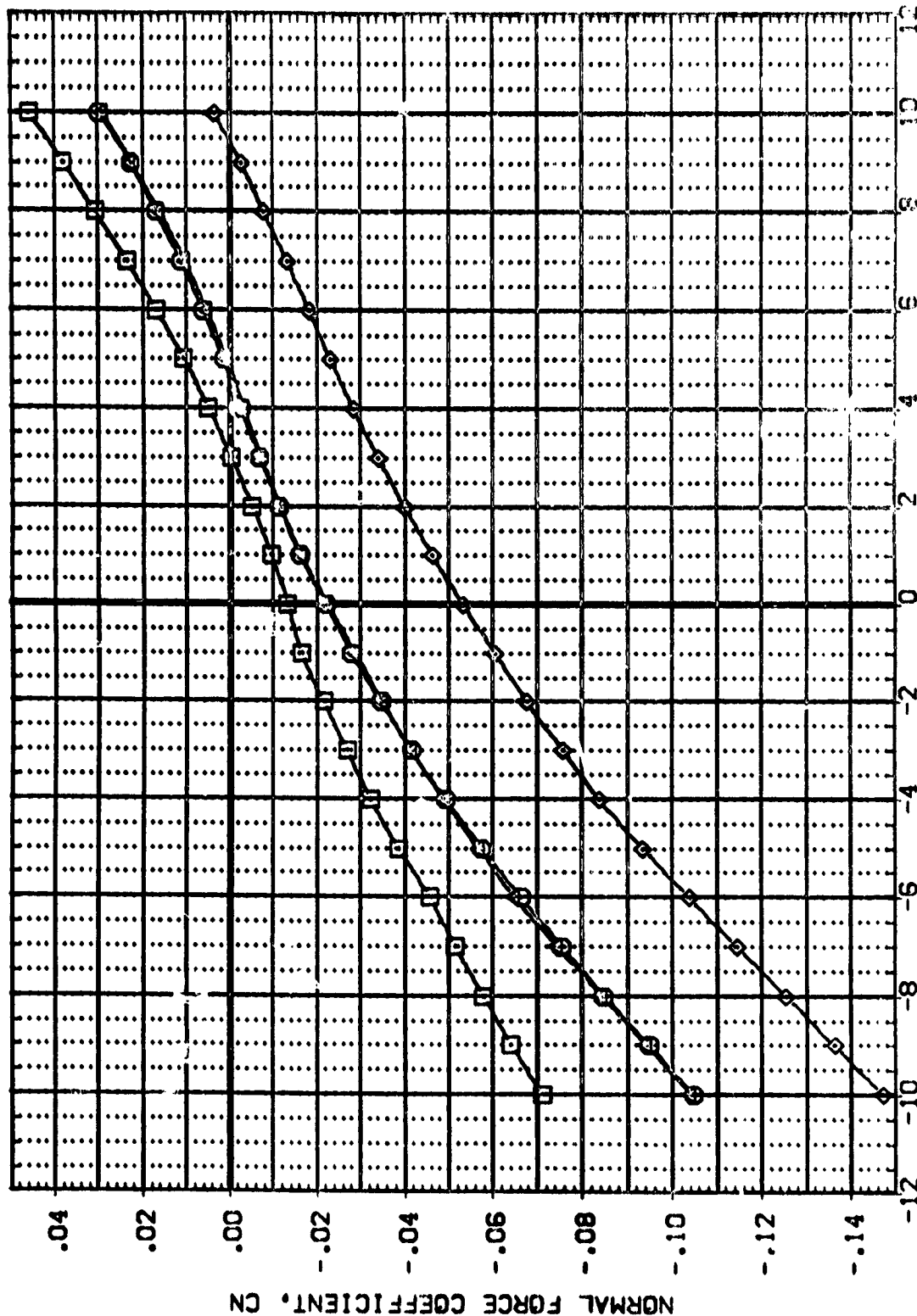


EFFECT OF UNSYMMETRICAL SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.76)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STLO64) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (STLO70) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (STLO74) AEDC VA-422(A-57): ORB/ET V/80TH SRB
 (STLO78) AEDC VA-422(A-57): ORB/ET V/80TH SRB

SRB POS R/V/L PT-JET BETA REFERENCE INFORMATION
 1.200 1.760 .000 SREF 2690.0000 59 FT.
 2.100 1.760 .000 LREF 1290.3000 IN.
 2.300 1.760 .000 BREF 1290.3000 IN.
 3.200 1.760 .000 YARP 1167.0000 IN. XS
 2.480 400.0000 IN. ZS
 SCALE .0100



EFFECT OF UNSYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACTERISTICS

CLIMACH = 4.50

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DATA SET SYMBOL

CONFIGURATION	DESCRIPTION
AEDC VA-422(A-57):	OR8/ET
AEDC VA-422(A-57):	OR8/ET
AEDC VA-422(A-57):	OR8/ET
AEDC VA-422(A-57):	OR8/ET

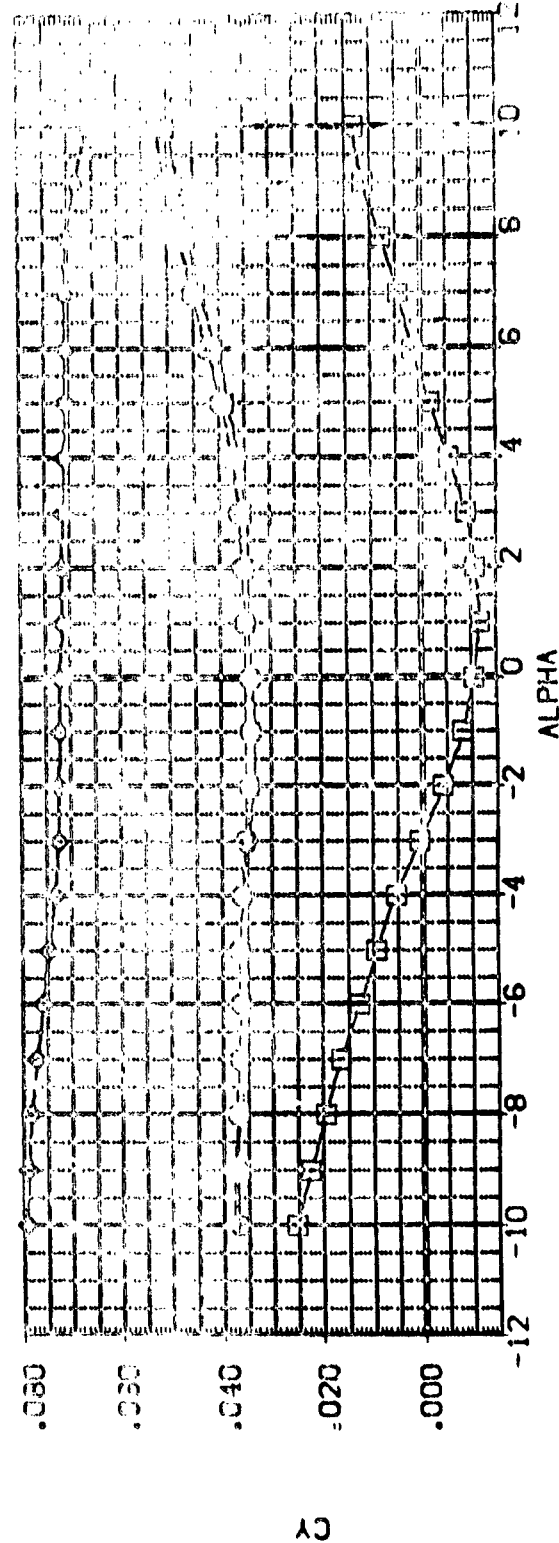
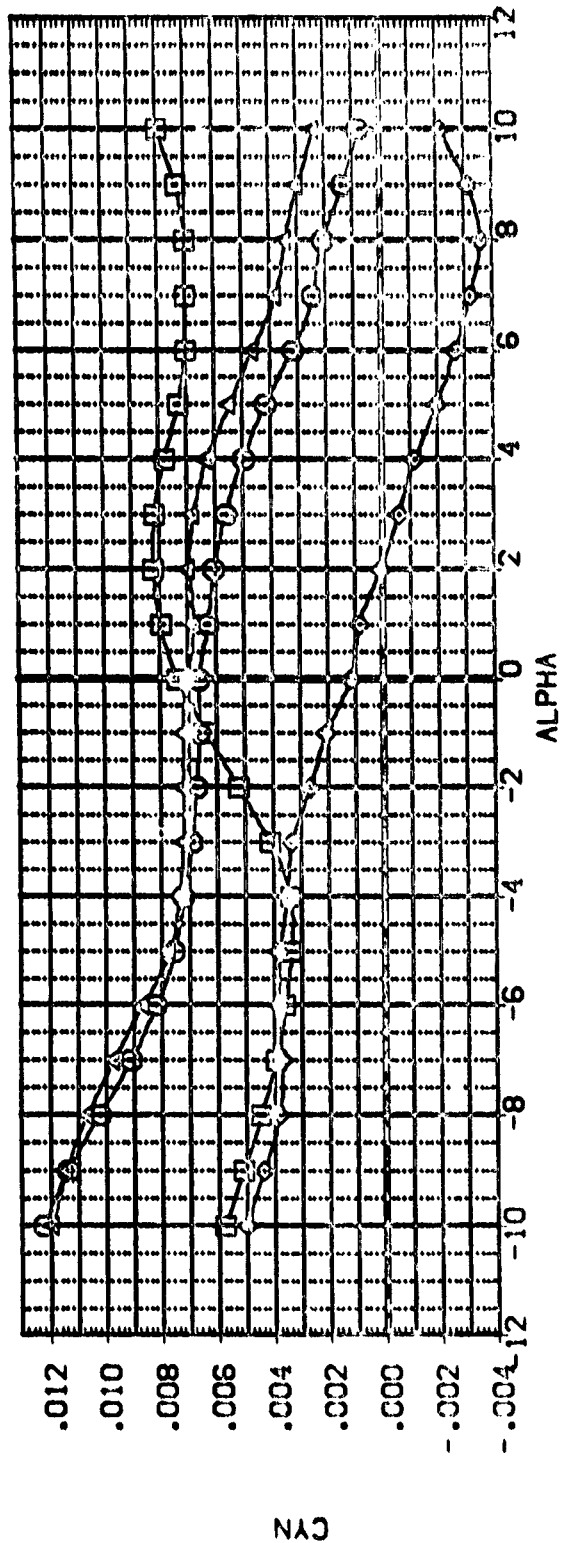
SERIES
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3.200

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REFERENCE INFORMATION	
3REF	2890.000 IN. S9.F1.
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EFFECT OF UNSYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHAPACT. ENV-5-75

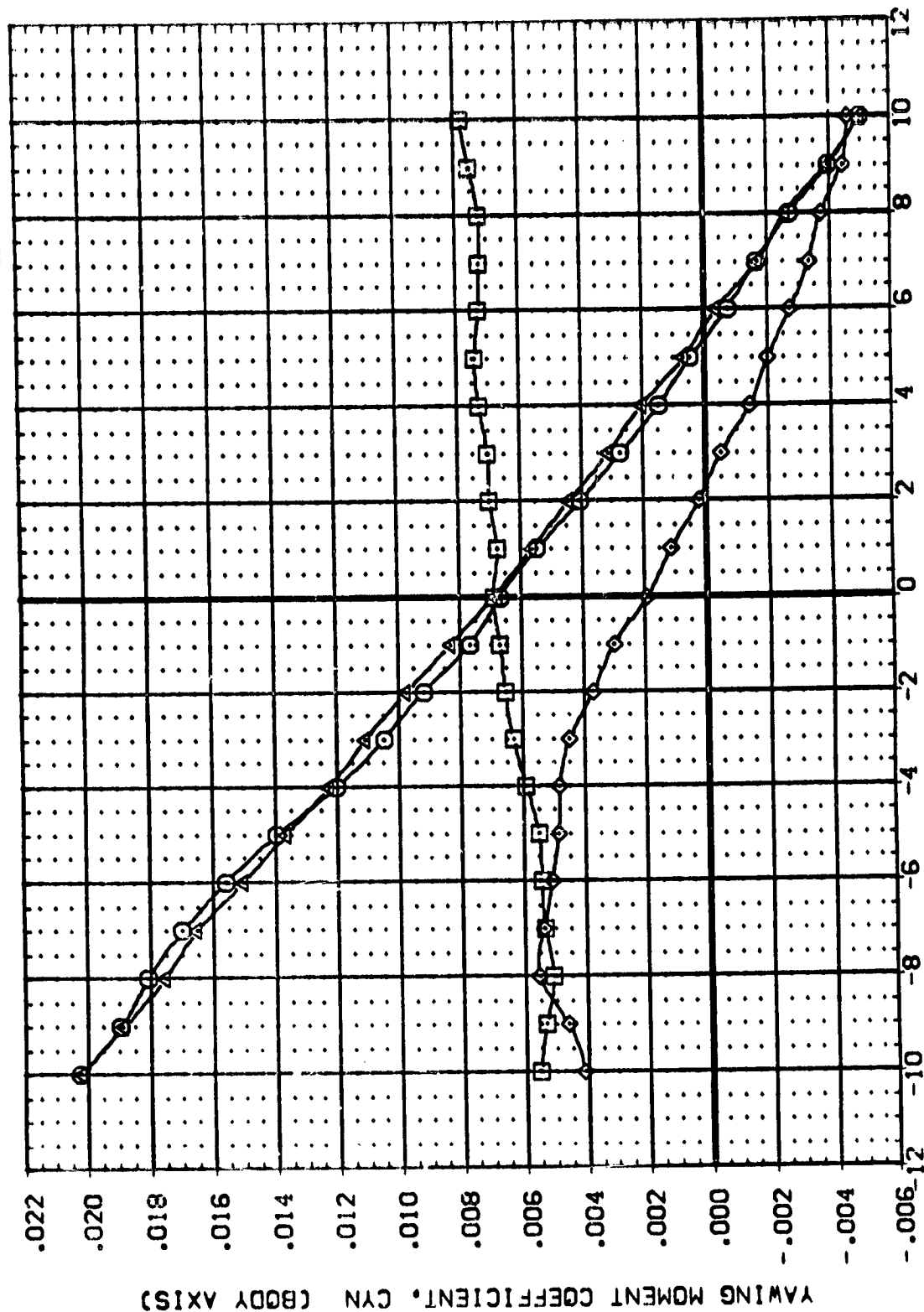
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DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	SRB REF	SRB FT.
(S1065)	AEDC VA-422(1A-57); ORB/ET V/BOOTH SRB	1.200	1.750	.000	.000	7690.0000	IN.
(S1071)	AEDC VA-422(1A-57); ORB/ET V/BOOTH SRB	2.100	1.750	.000	.000	7690.0000	IN.
(S1075)	AEDC VA-422(1A-57); ORB/ET V/BOOTH SRB	2.300	1.750	.000	.000	7690.0000	IN.
(S1079)	AEDC VA-422(1A-57); ORB/ET V/BOOTH SRB	3.200	1.750	.000	.000	7690.0000	IN.

SCALE .0100



EFFECT OF UNSYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RN/L=6.75)

(M)MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

[S1065] AEDC VA-422(1A-57), CRB/ET W/BOTH SRB
 [S1071] AEDC VA-422(1A-57), CRB/ET W/BOTH SRB
 [S1075] AEDC VA-422(1A-57), CRB/ET W/BOTH SRB
 [S1079] AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

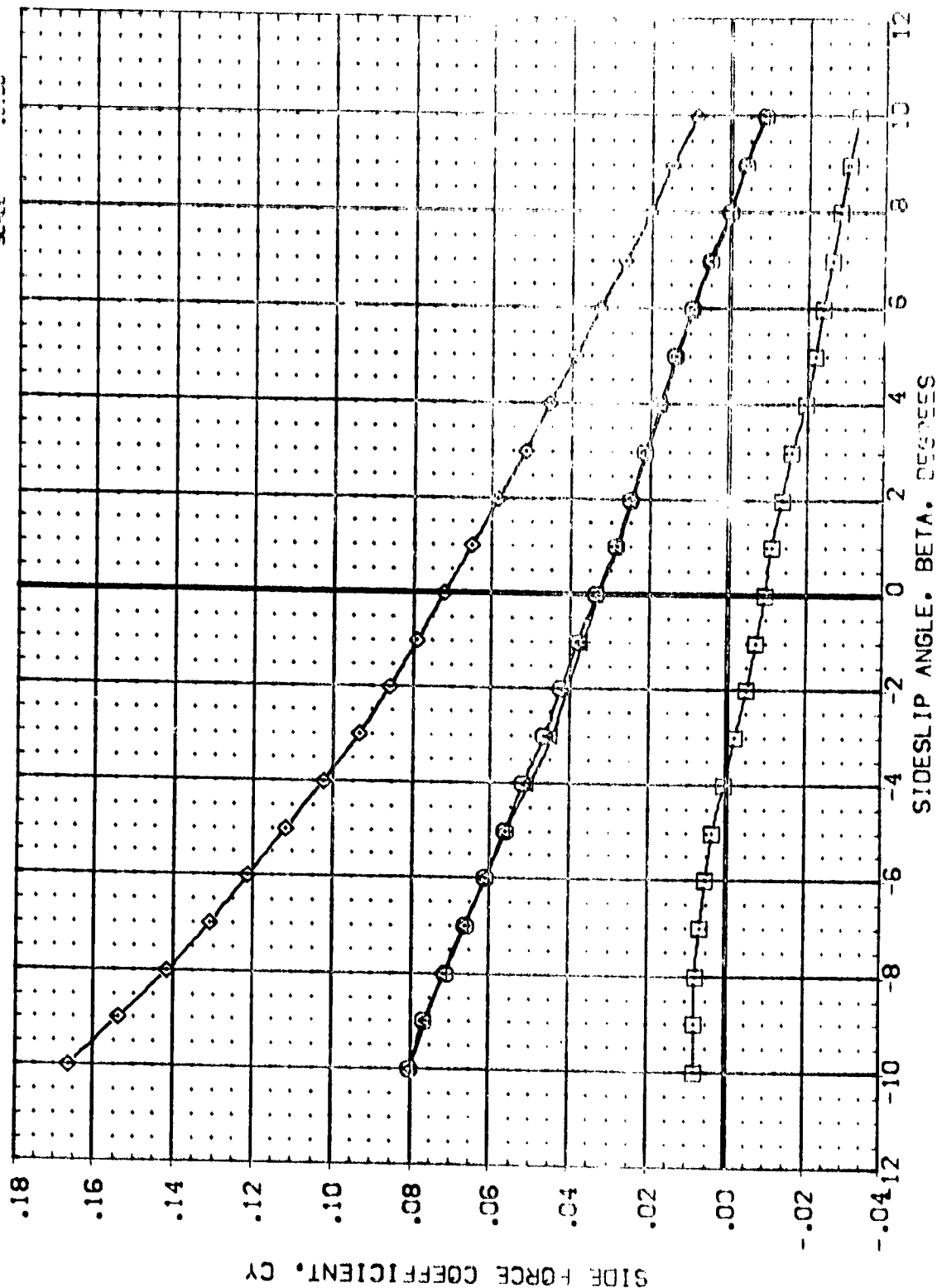
SRBPOS 1.200
 2.100
 3.200

RN/L 1.750
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PT-JET .000
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ALPHA .000
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REFERENCE INFORMATION
 SREF 2690.0000
 LREF 1250.0000
 BREF 1250.0000
 WREF 1116.0000
 WREF 400.0000
 SCALE 100.0000

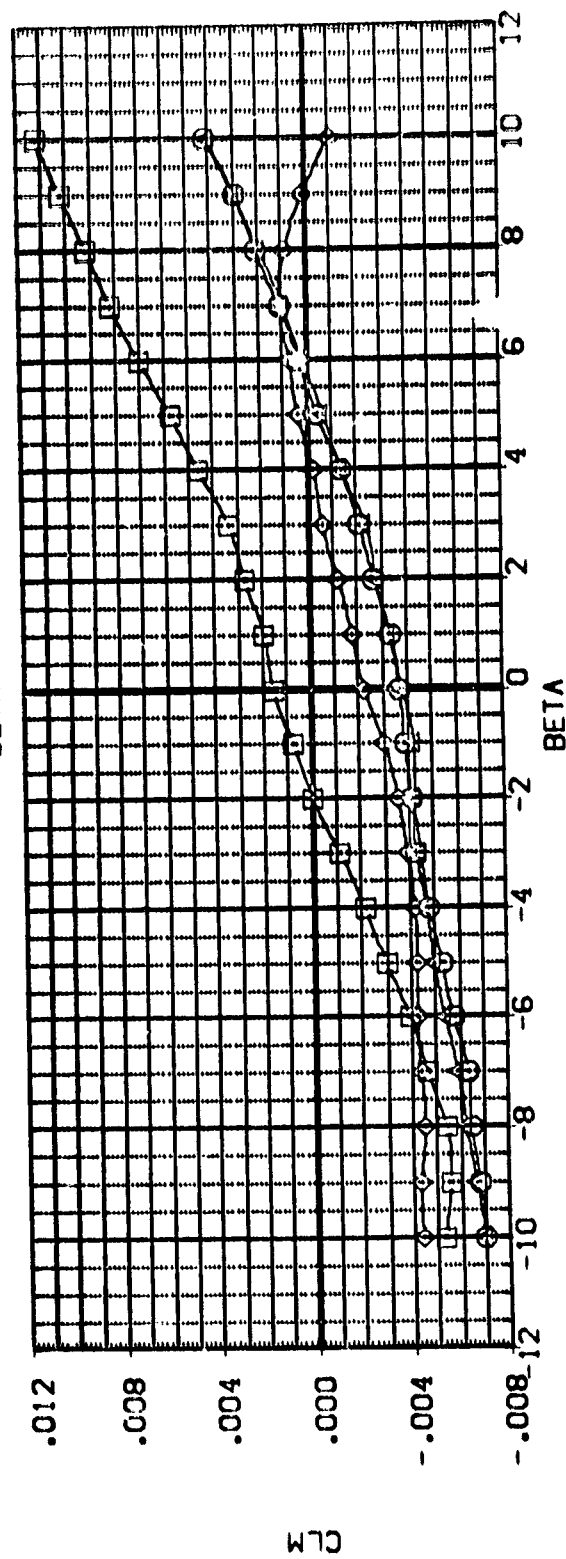
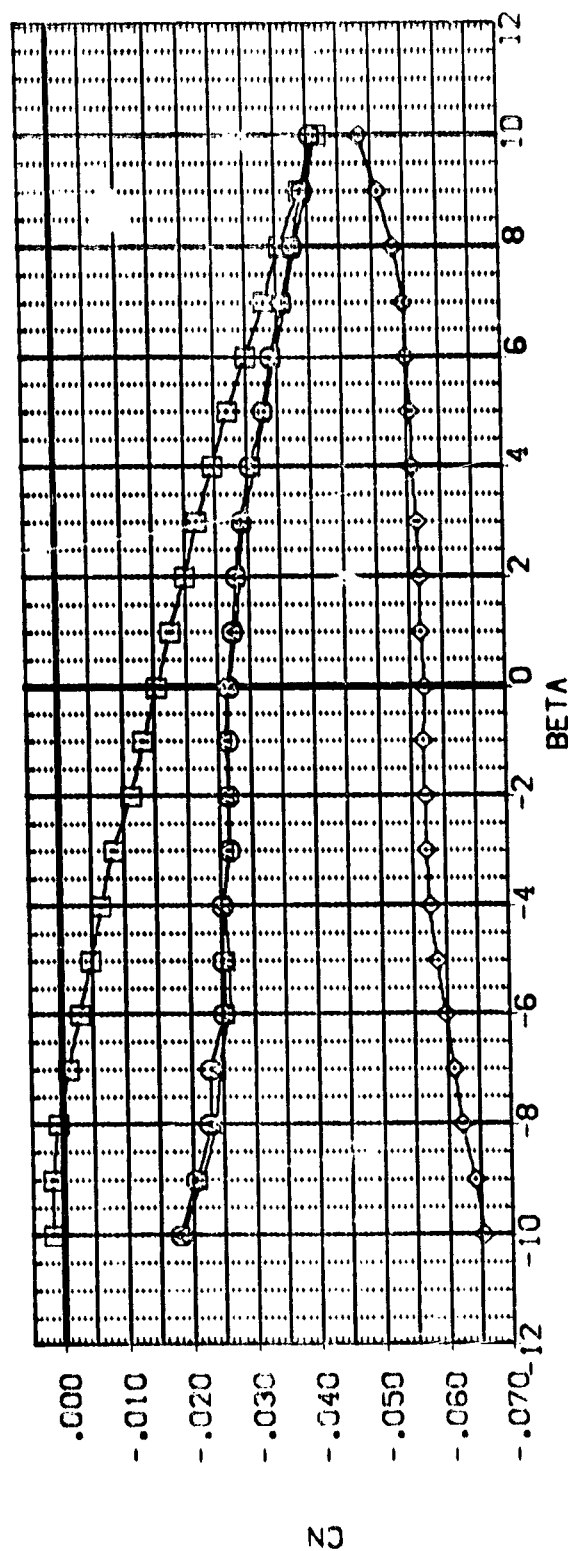


EFFECT OF UNSYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACTERISTICS (REF. 15.75)

(A) V/C = 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
(S) 0651	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	1.200	1.750	.000	.000	2690.3000
(S) 0711	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.100	1.750	.000	.000	1250.3000
(S) 0751	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	2.300	1.750	.000	.000	1250.3000
(S) 0791	AEDC VA-422(1A-57): CRB/ET V/BOTH SRB	3.200	1.760	.000	.000	1250.3000
						400.0000
						SCALE



EFFECT OF UNSYMMETRICAL SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RN/L=6.75)

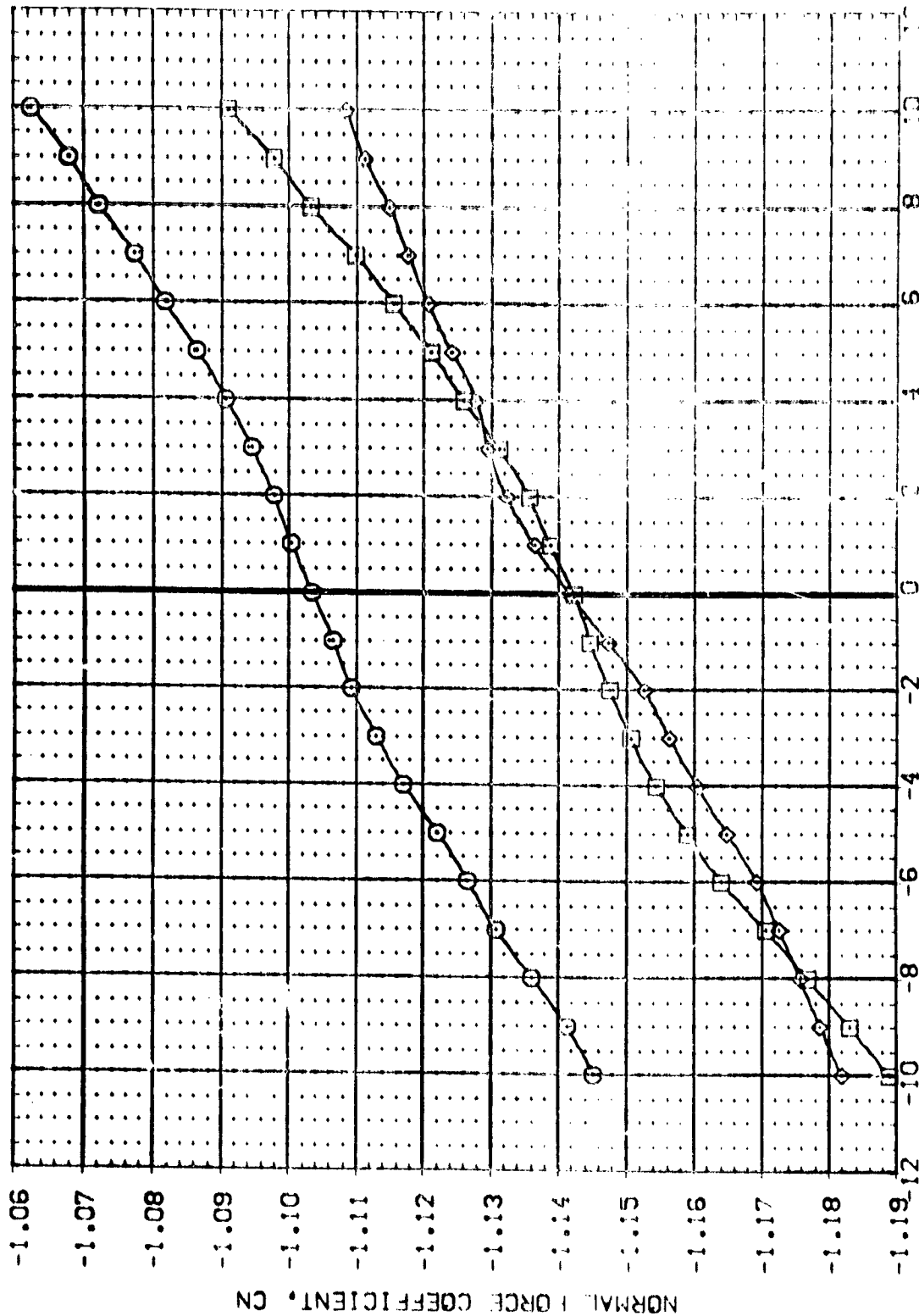
CAMACH - 4.50

PAGE 2:9

DATA SET SYMBOL: S1001
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB
 S1001: AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB
 S1002: AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB
 S1003: AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB

SRB POS: .100
 RV/L: 1.470 1500.000
 PT-JET: .000
 BETA: .000

REFERENCE INFORMATION:
 SRB REF: 1500.000
 L REF: 150.000
 SRB REF: 150.000
 Y REF: 150.000
 X REF: 150.000
 Y REF: 150.000
 X REF: 150.000
 SCALE: 400.0000



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (X VAL=1.4)

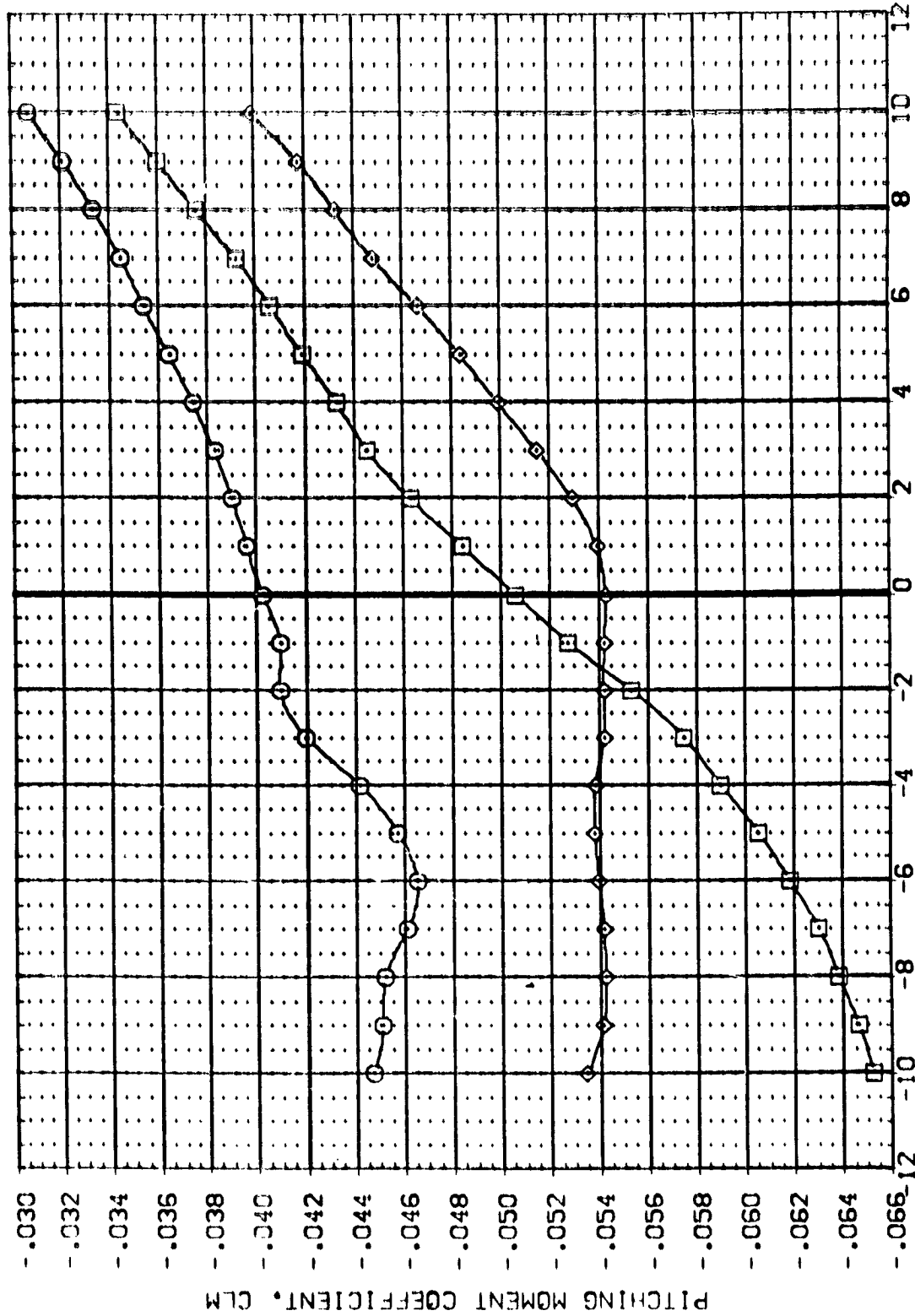
CAD MACH = 1.50

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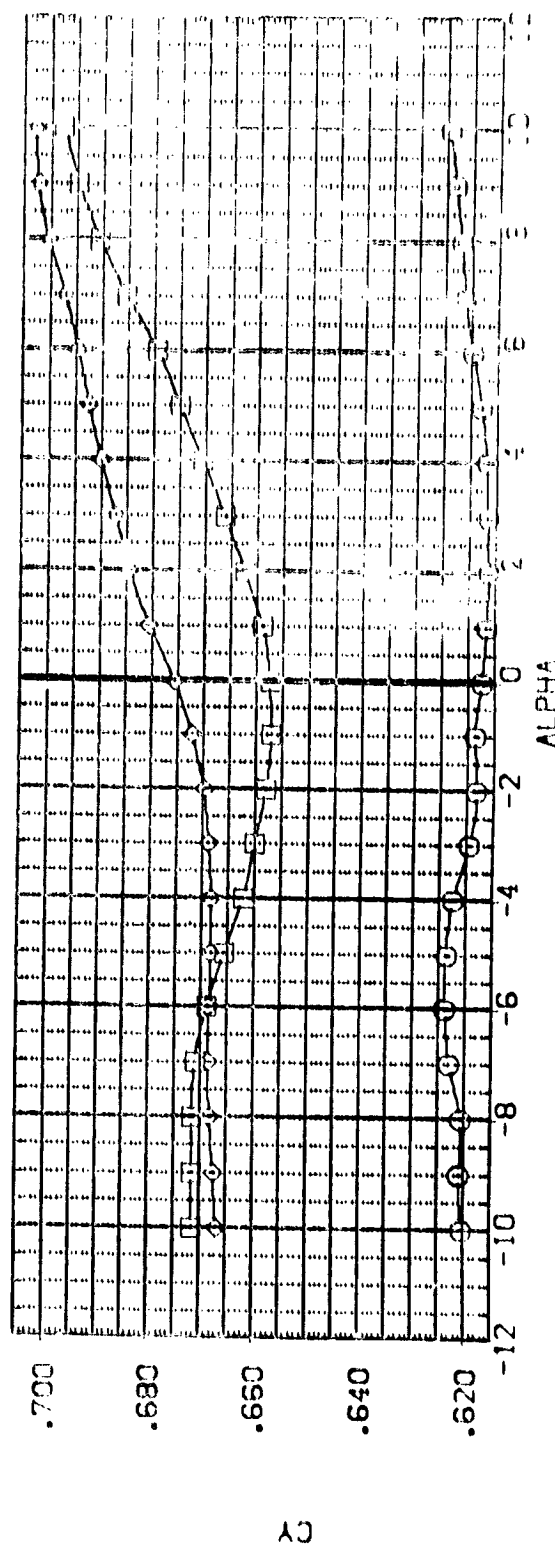
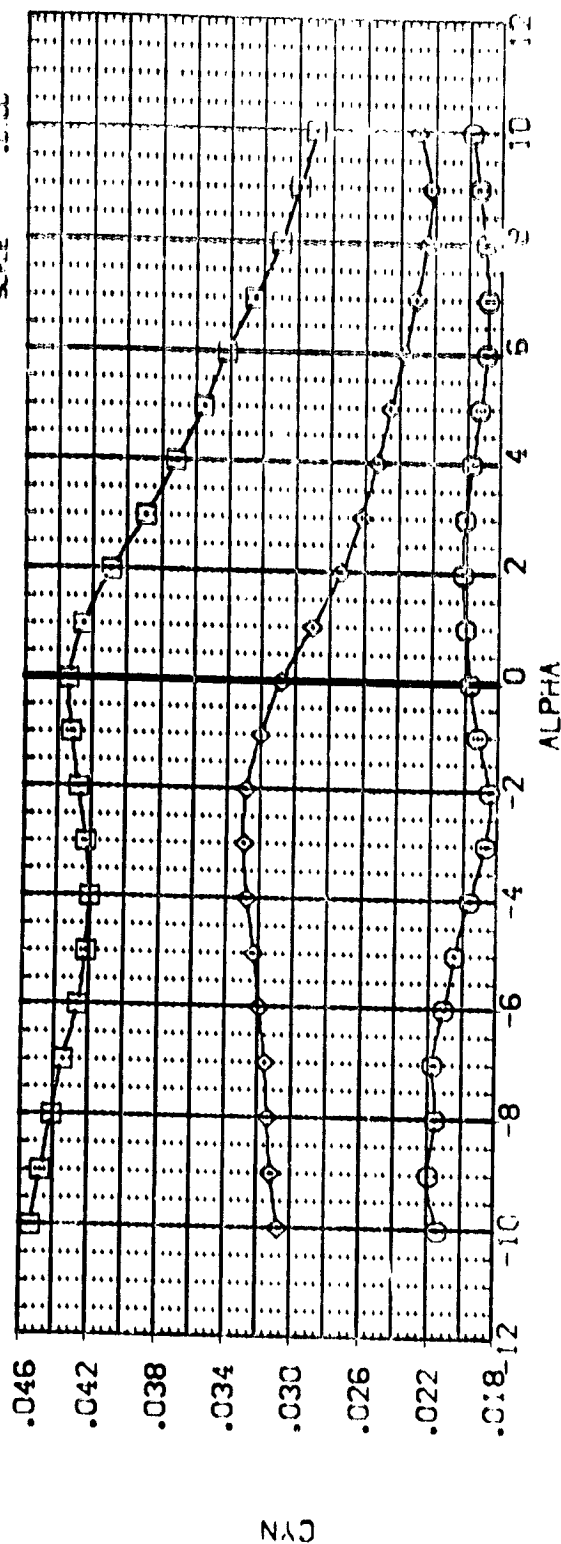
DATA SET SY-900. CONFIGURATION DESCRIPTION

ST-001	SRB	SRB POS	R/V/L	PT-JET	BETA	REFERENCE INFORMATION
AECC VA-422(A-57)	SRB	.100	1.400	1500.000	.000	SRB 1500.000
AECC VA-422(A-57)	SRB	.200	1.400	1500.000	.000	SRB 1500.000
AECC VA-422(A-57)	SRB	.300	1.400	1500.000	.000	SRB 1500.000

SCALE



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.4)

[illegible][illegible]

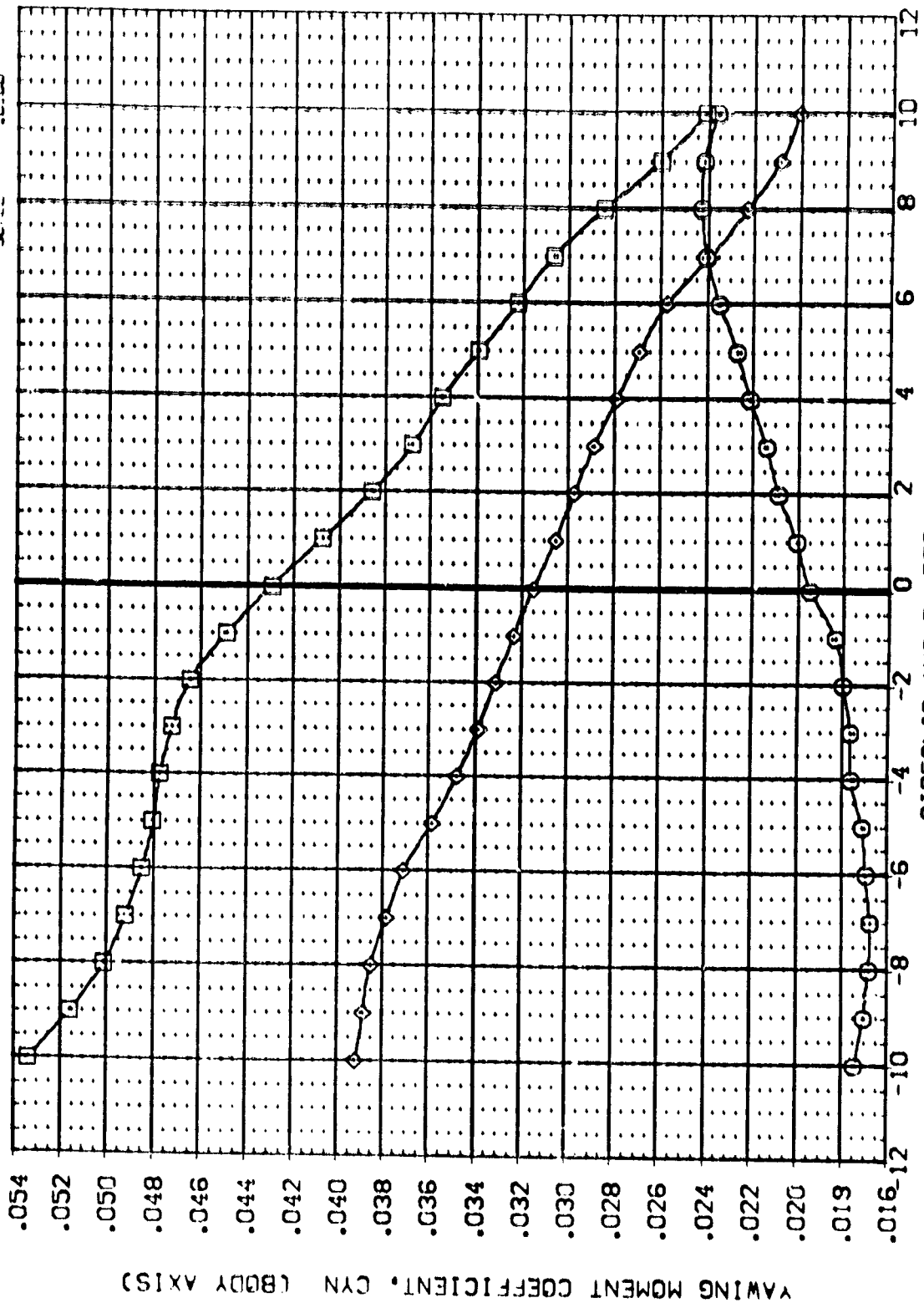
EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (P. 11-12)

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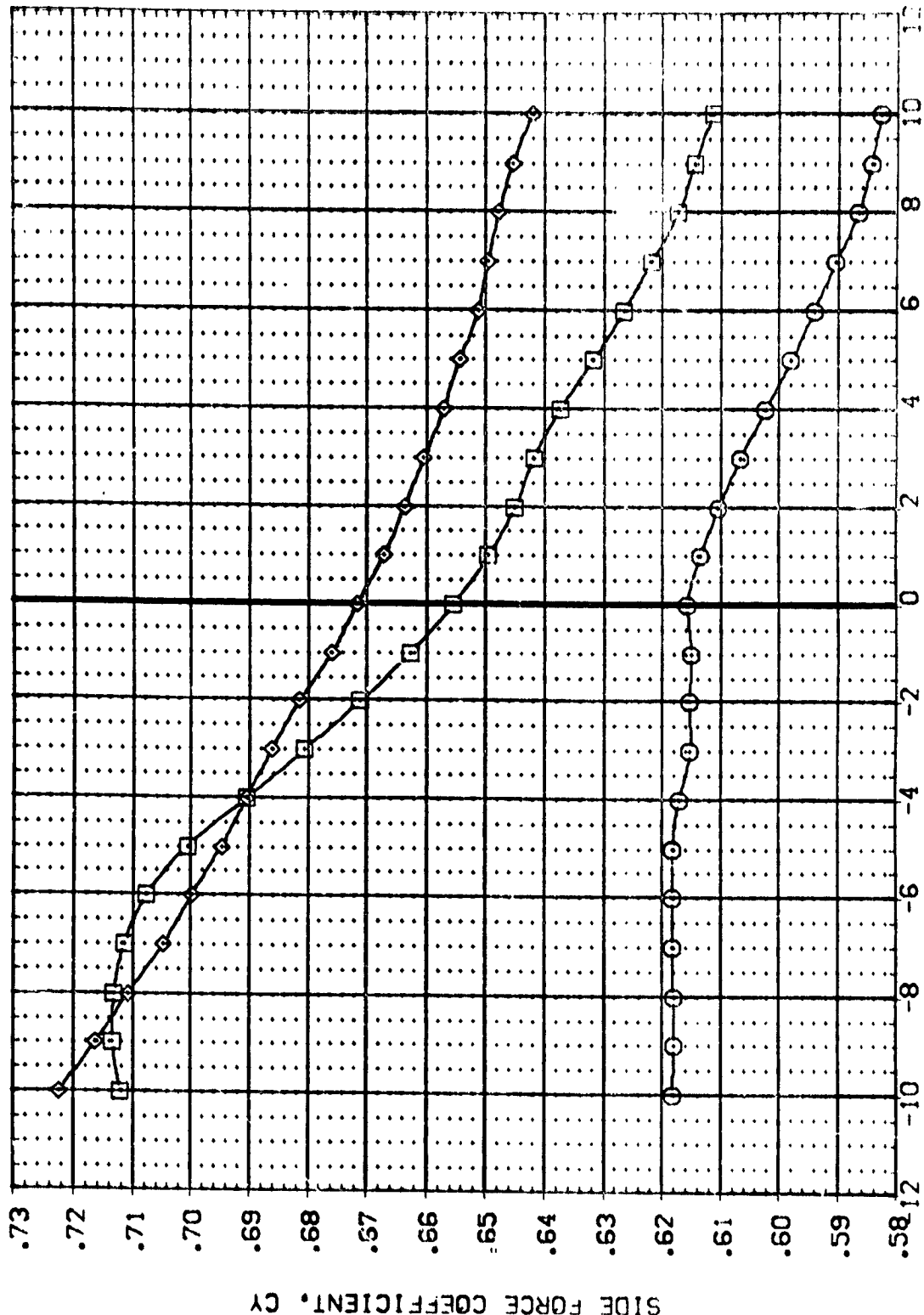
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (S1008) AEDC VA-422(IA-57), ORB/ET V/RIGHT SRB
 (S1016) AEDC VA-422(IA-57), ORB/ET V/RIGHT SRB
 (S1024) AEDC VA-422(IA-57), ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION
 .100 1.400 1500.000 .000 SPEC 1500.000 50.0°
 .200 1.400 1500.000 .000 PRE 1500.000 50.0°
 .300 1.400 1500.000 .000 PRE 1500.000 50.0°
 SCALE 1500.000 50.0°



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=1.4)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
[STL008]	[STL016]	[STL024]	AEDC VA-422(1A-57): CRB/ET V/R(HT) SRB	.100	.200	.300	1.400	1500.000	.000	.000	.000	SRF	590.0000
			AEDC VA-422(1A-57): CRB/ET V/R(HT) SRB				1.400	1500.000				LRF	290.0000
			AEDC VA-422(1A-57): CRB/ET V/R(HT) SRB				1.400	1500.000				BRF	290.0000
												MRP	1167.0000
												YMRP	400.0000
												ZMRP	400.0000
												SCALE	01:00



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (RV/L=1.4)

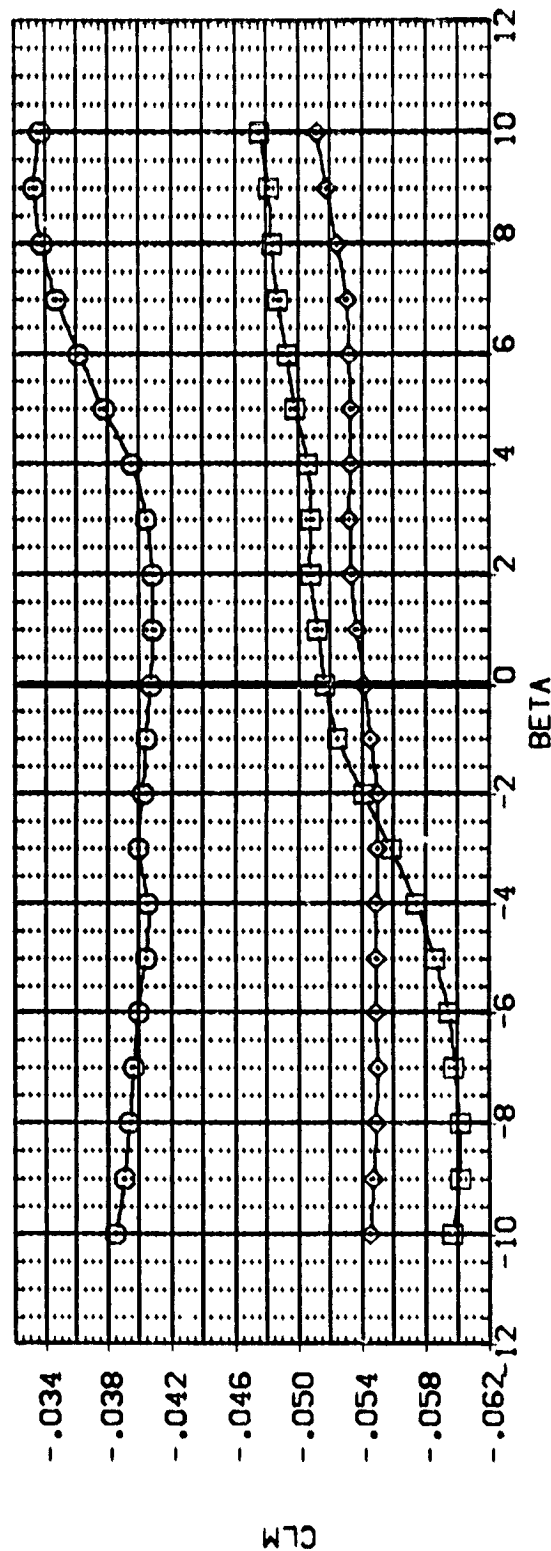
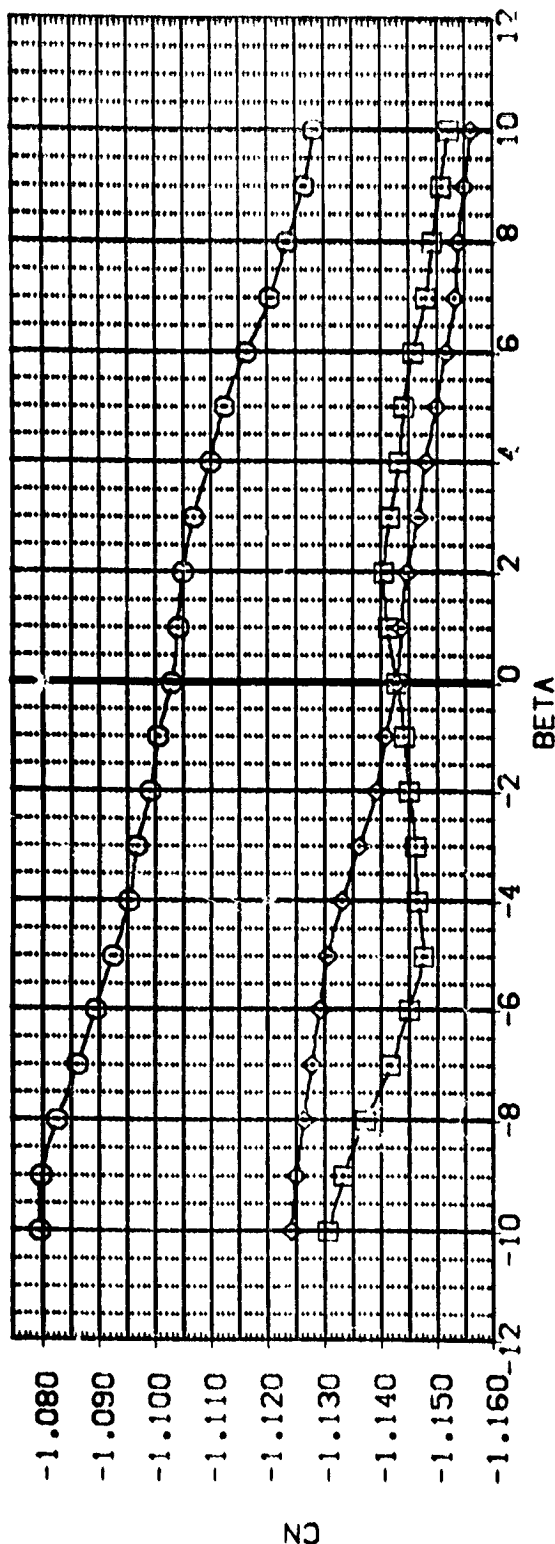
(A)MACH 4.50



DATA SET SYMBOL CONFIGURATION DESCRIPTION

[STL008] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 [STL016] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 [STL024] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

SRBPOS RN/L PT-JET ALPHA REFERENCE INFORMATION:
 .100 1.400 1500.000 .000 SREF 7690.0000 SD.FT.
 .200 1.400 1500.000 .000 LREF 7690.0000
 .300 1.400 1500.000 .000 BRFF 7690.0000
 .400 1500.000 .000 XMRP 7690.0000
 .500 1500.000 .000 YMRP 7690.0000
 .600 1500.000 .000 ZMRP 7690.0000
 .700 1500.000 .000 SCALE 400.0000

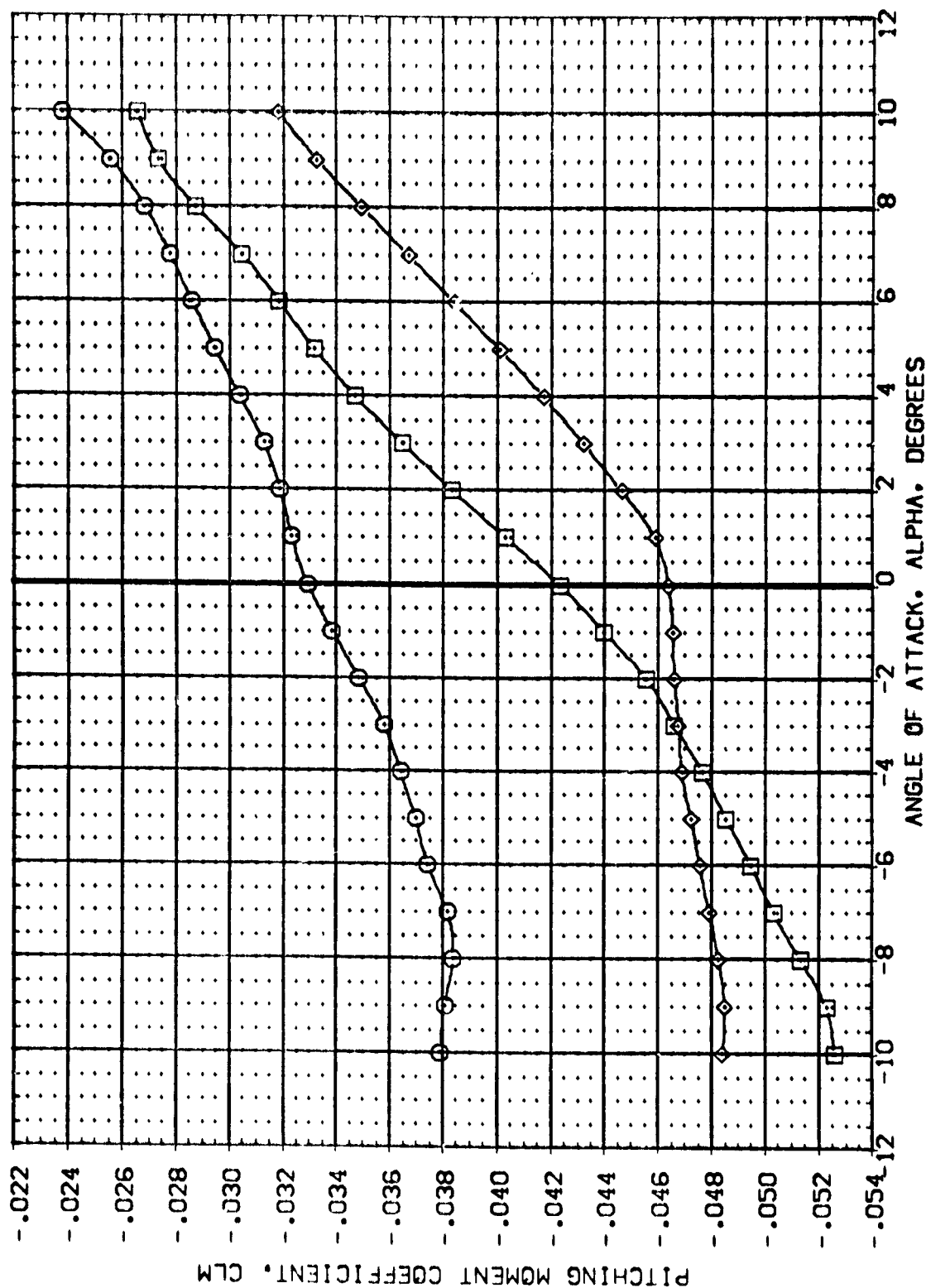


EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS (RN/L=1.4)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[S1013] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 [S1021] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 [S1029] AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 1500.000 .000 SREF 1600.0000 SC.FT.
 .200 1.760 1500.000 .000 LREF 1500.0000 IN.
 .300 1.760 1500.000 .000 BREF 1500.0000 IN.
 .400 1500.000 .000 YMRP 1500.0000 IN.
 .500 1500.000 .000 YMRP 1500.0000 IN.
 .600 1500.000 .000 YMRP 1500.0000 IN.
 .700 1500.000 .000 YMRP 1500.0000 IN.
 .800 1500.000 .000 YMRP 1500.0000 IN.
 .900 1500.000 .000 YMRP 1500.0000 IN.
 1.000 1500.000 .000 YMRP 1500.0000 IN.
 SCALE 100.0000



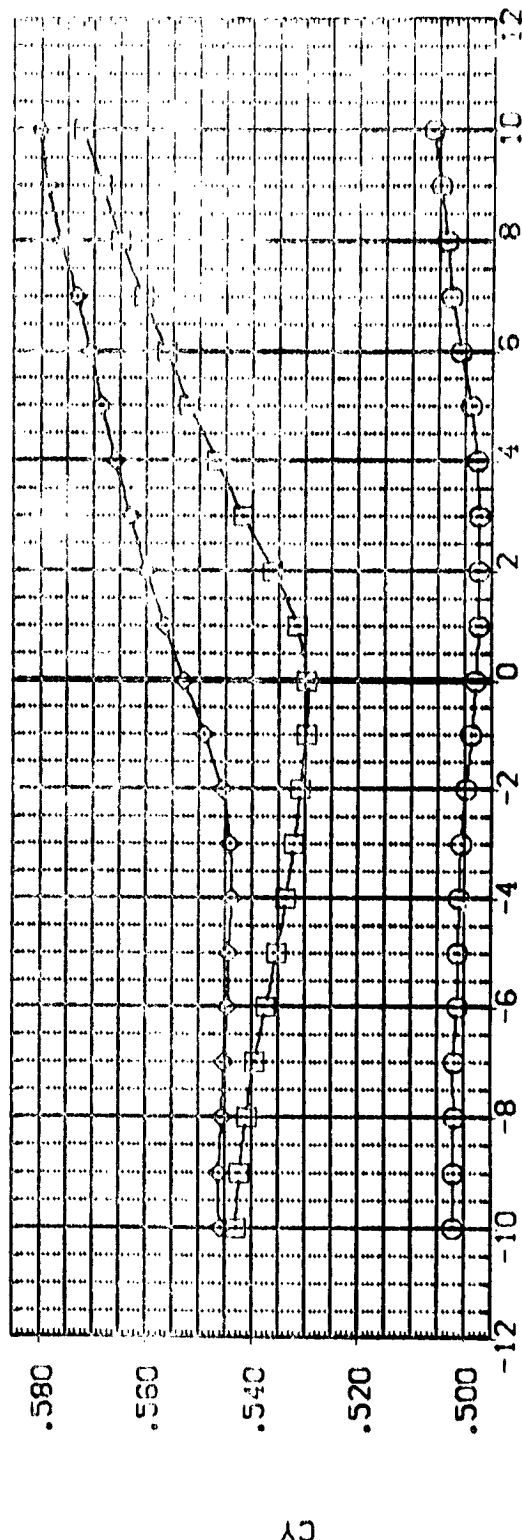
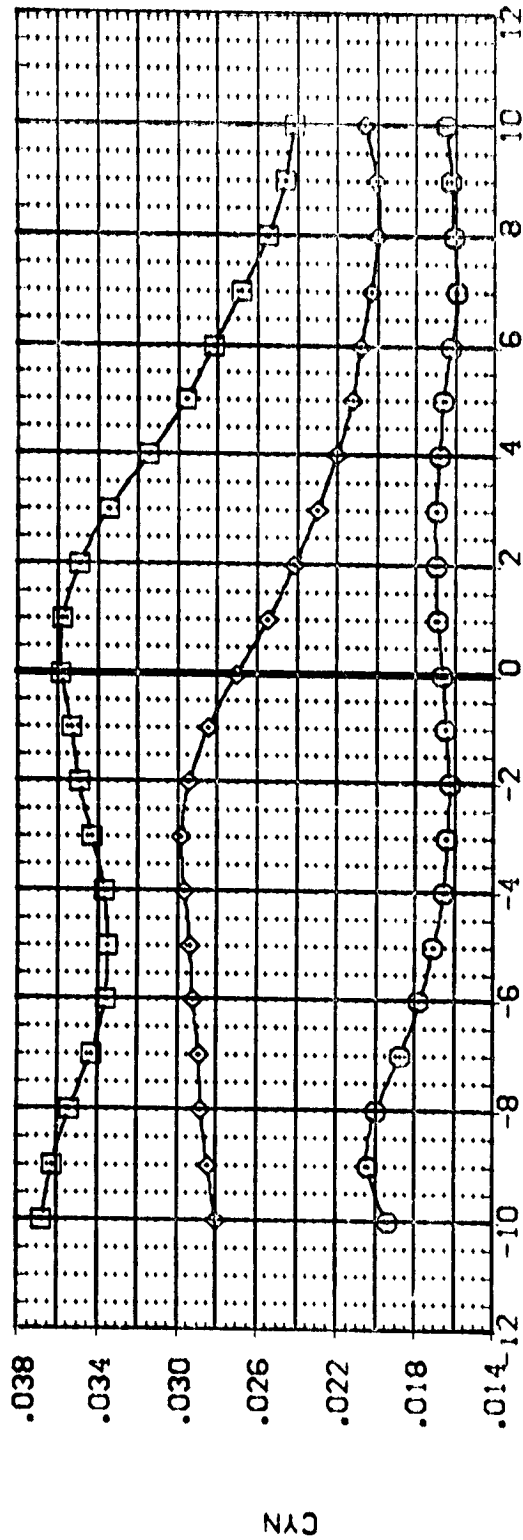
EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACT. (RV/L=1.76, PT-JET=1500)

(A)MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {S'LO13} AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 {S'LO21} AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 {S'LO29} AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 1500.000 .000 SREF 2690.0000 SQ.FT.
 .200 1.760 1500.000 .000 LREF 1290.3000 IN.
 .300 1.760 1500.000 .000 BREF 1290.3000 IN.
 XMRP 1167.0000 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE 400.0000 IN.
 .0100

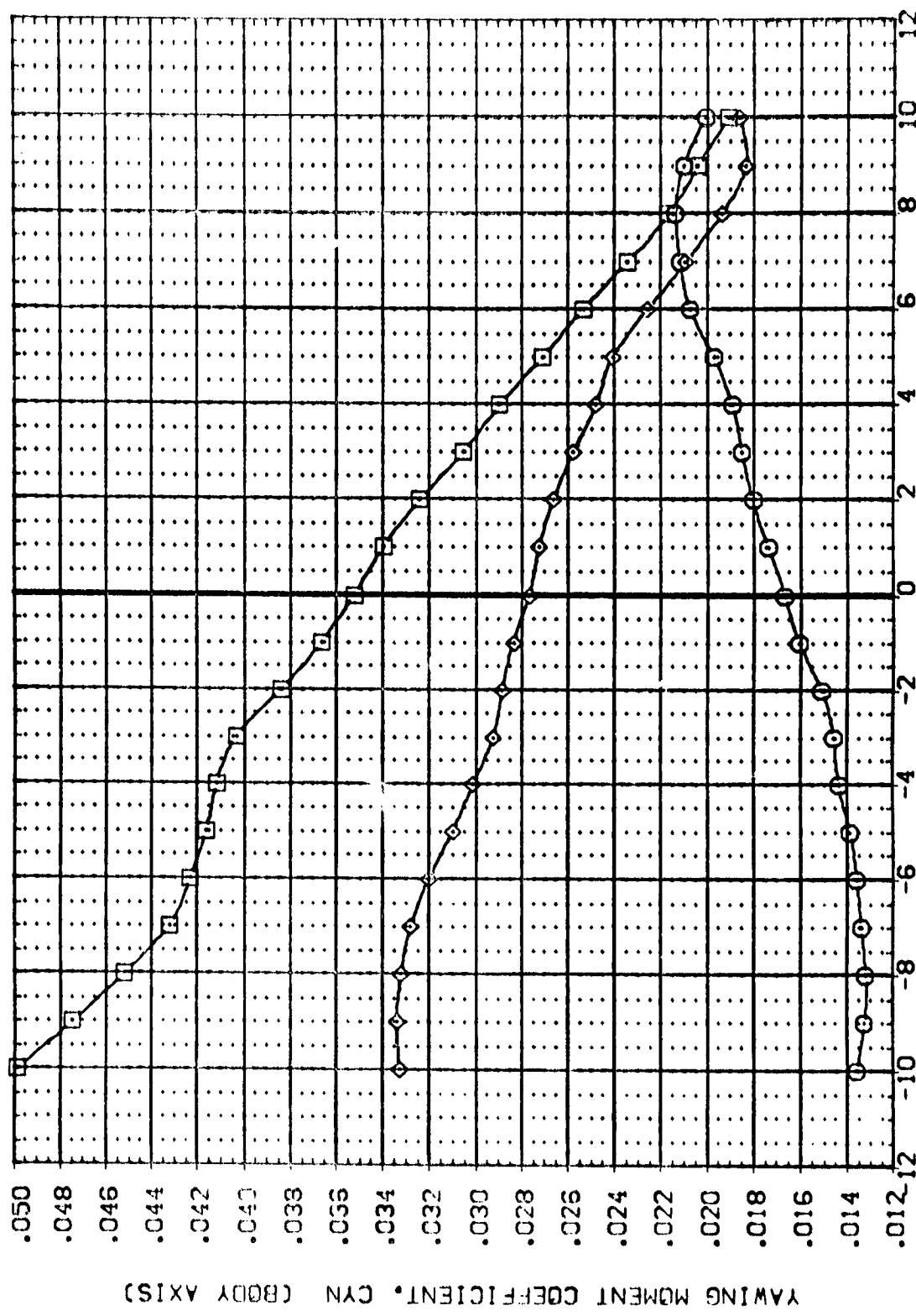


EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTER. (RVN/L=1.76, PT-JET=1500)

CAD MACH = 4.50

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(S1L0141)	○	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.100	1.760	1500.000	.000	SREF	2690.0000	SC.F.			
(S1L022)	○	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	LREF	1790.3000	IN.	SS		
(S1L030)	○	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	SREF	1790.3000	IN.	SS		
								AMPD	1157.0000	IN.	SS		
								YREF	400.0000	IN.	SS		
								ZREF	400.0000	IN.	SS		
								SCALE	0.0100				



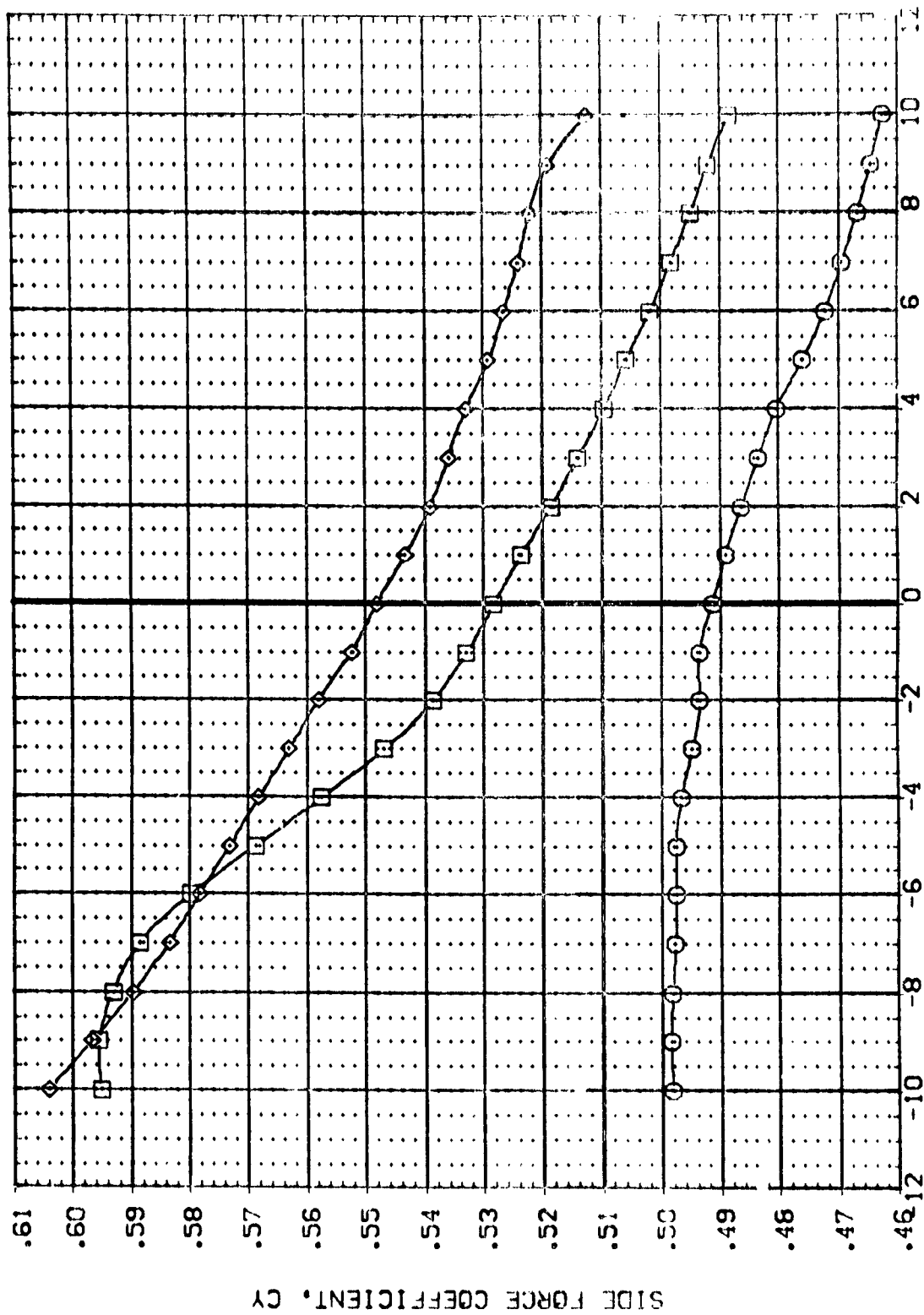
EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTER. (RV/L=1.76, PT-JET=1500)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ST-014) AEDC VA-422(1A-57): CRB/ET V/RIGHT SRB
 (ST-022) AEDC VA-422(1A-57): CRB/ET V/RIGHT SRB
 (ST-030) AEDC VA-422(1A-57): CRB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET ALPHA
 .100 1.760 1500.000 .000
 .200 1.760 1500.000 .000
 .300 1.760 1500.000 .000

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 1790.3000 IN.
 BREF 1250.3000 IN.
 YPROP 1167.0000 IN.
 ZPROP 400.0000 IN.
 SCALE 1.0000



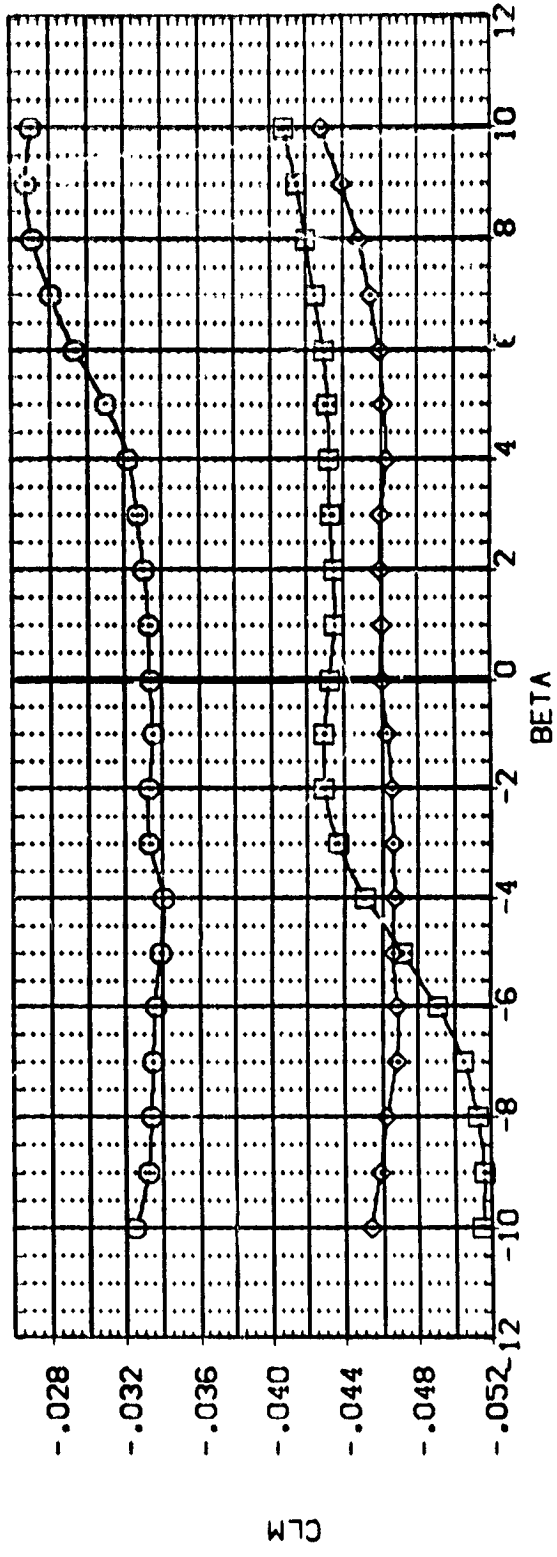
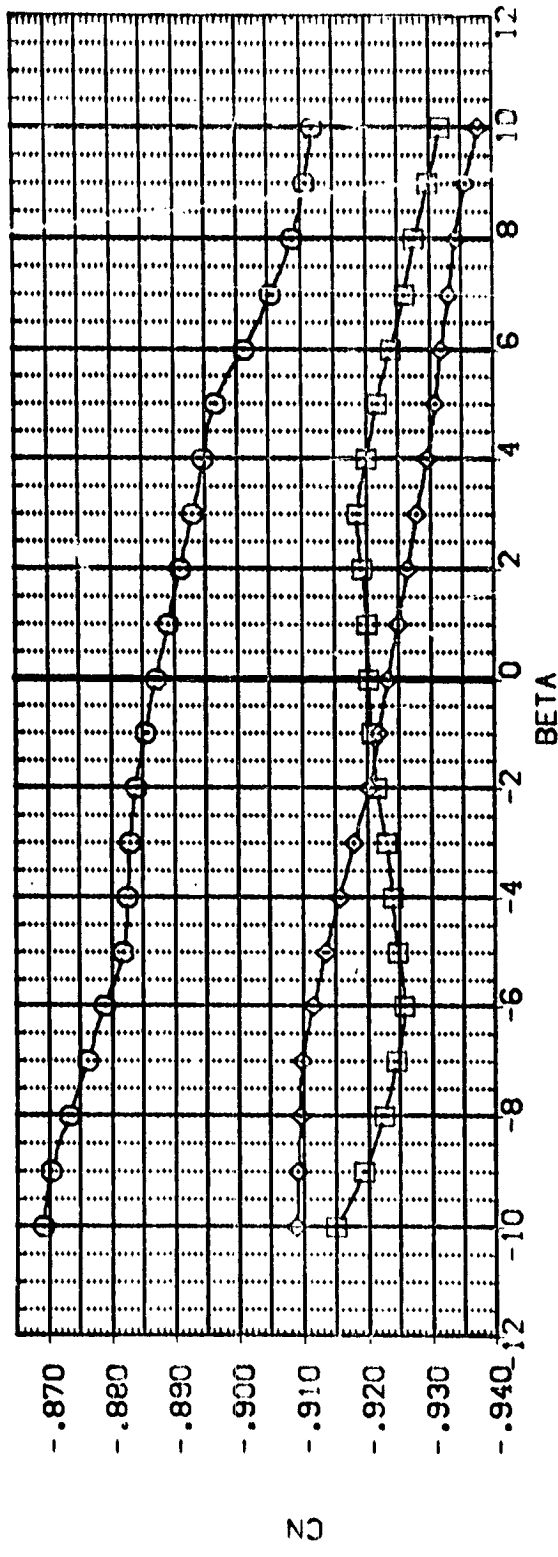
SIDESLIP ANGLE, BETA, DEGREES

EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACT. (RV/L=1.76, PT-JET=1500)

CAMACH 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL014]	AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB	.100	1.760 1500.000	.000	SREF 2690.0000	SD.F.T.
[STL022]	AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB	.200	1.760 1500.000	.000	LREF 1290.3000	IN.
[STL030]	AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB	.300	1.760 1500.000	.000	BREF 1290.3000	IN.
					YMRP 1167.0000	IN.
					ZMRP 400.0000	IN.
					SCALE 0.100	IN.



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACT. (RN/L=1.76, PT-JET=1500)

DATA SET SYMBOL: ST1011
 ST1019
 ST1027

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

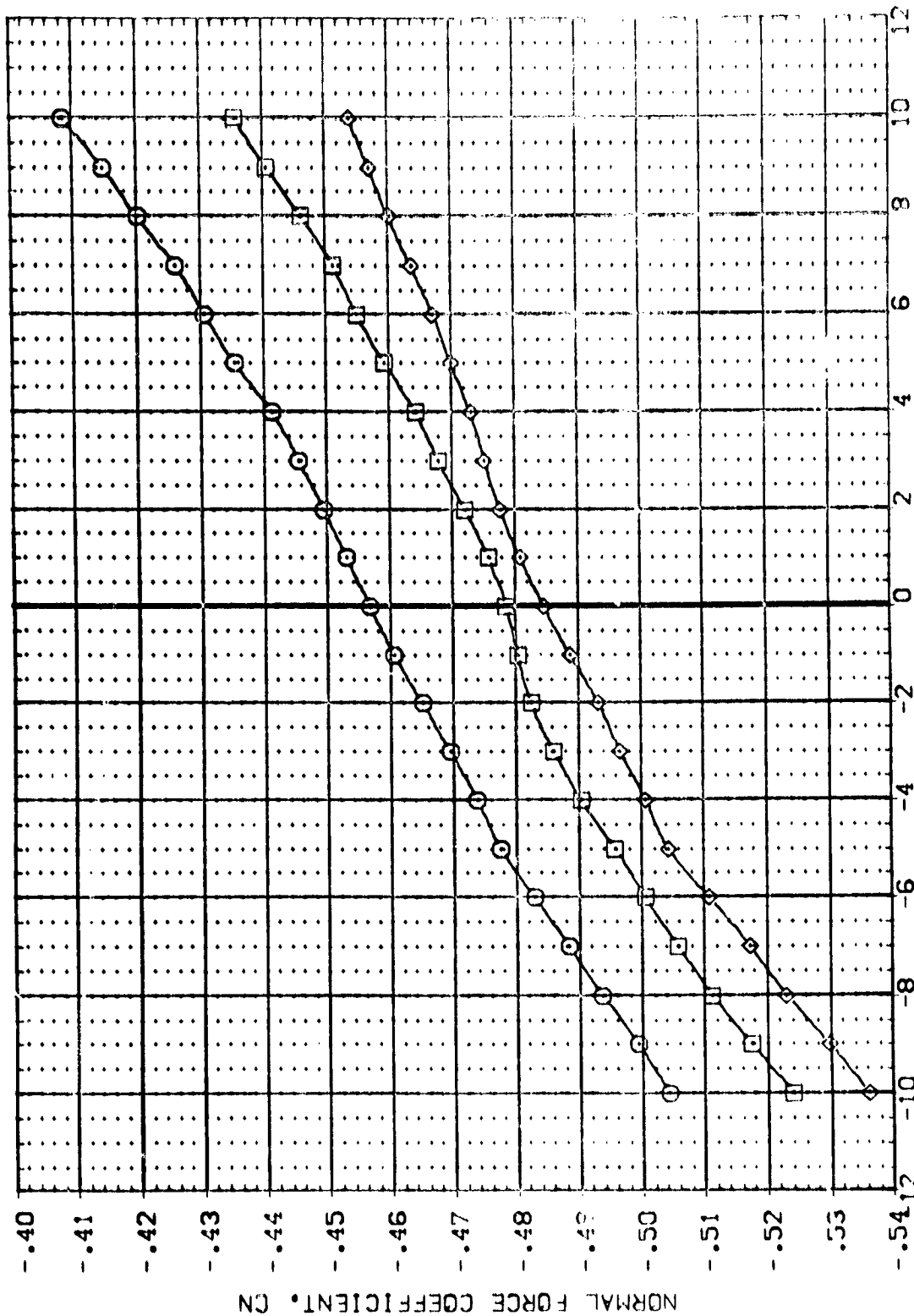
SRBPOS: .100
 .200
 .300

RN/L: 1.760
 1.760
 1.760

PT-JET: 750.000
 750.000
 750.000

BETA: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000
 LREF: 1250.0000
 BREF: 1250.0000
 XREF: 1167.0000
 YREF: 0.0000
 ZREF: 400.0000
 SCALE: 0.000



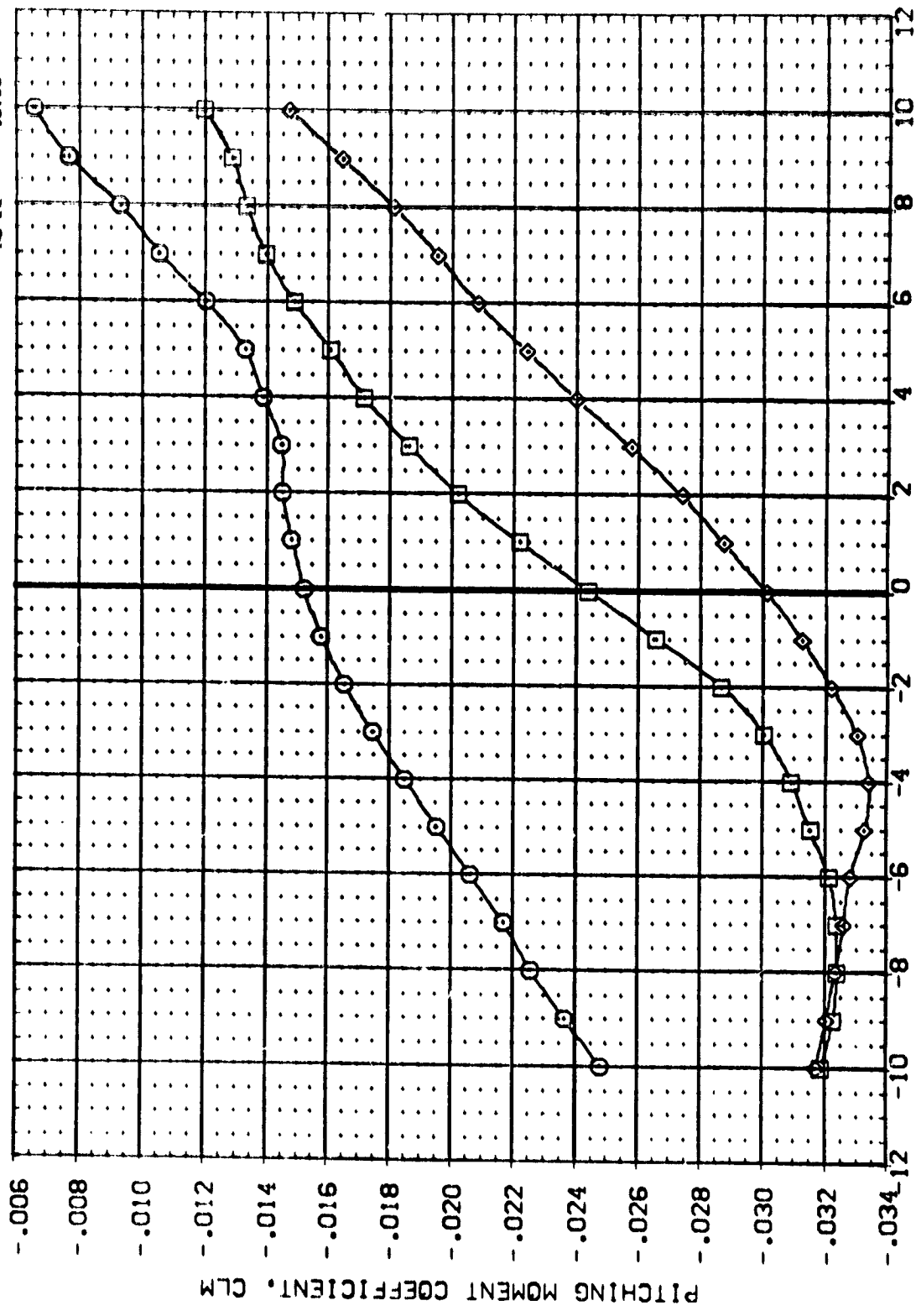
ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTERISTICS. (RN/L=1.76, PT-JET=750)

CALMACH = 4.50

PAGE 080

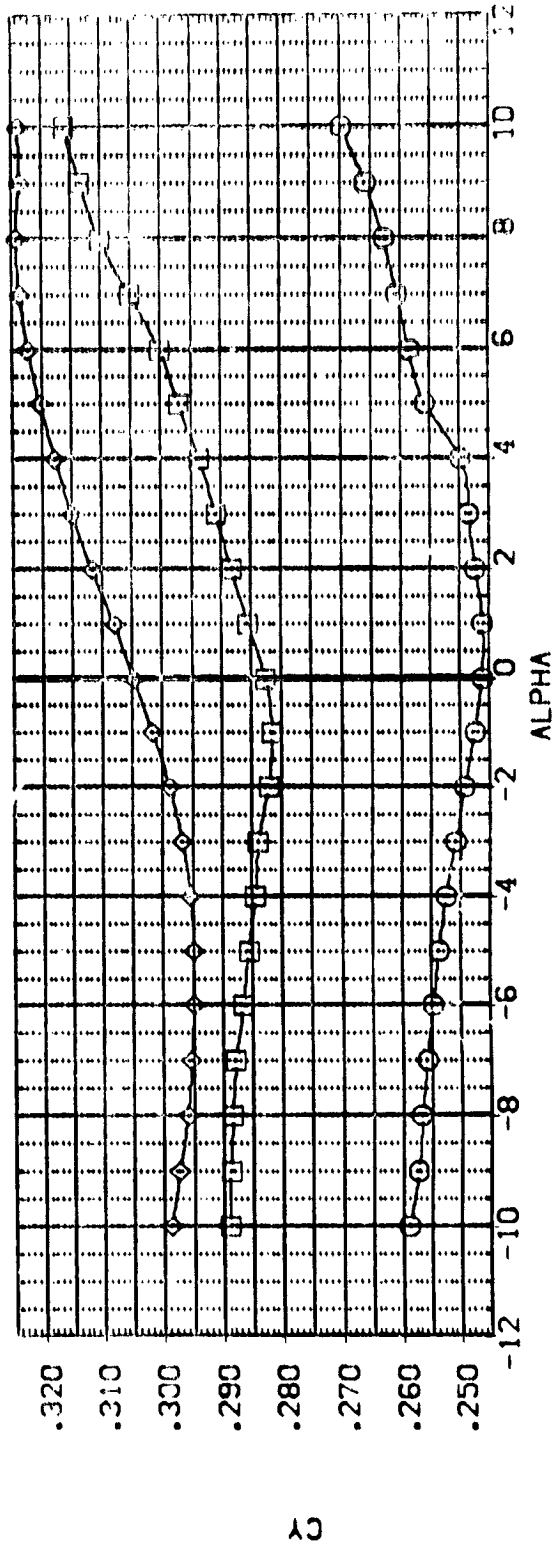
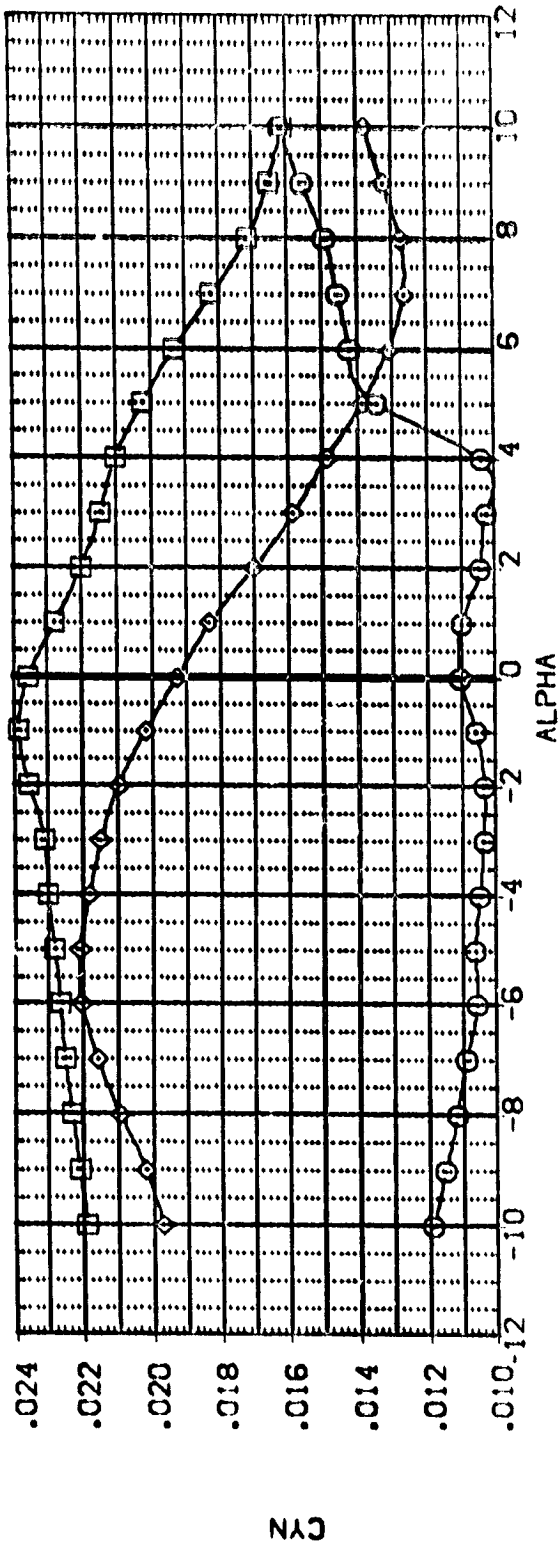
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		BETA		REFERENCE INFORMATION	
(S1-011)	○	AEDC VA-422(A-57)	ORB/ET V/RIGHT SRB	.100	1.760	.000	750.000	SPE	750.000	SD	750.000	VS	
(S1-019)	○	AEDC VA-422(A-57)	ORB/ET V/RIGHT SRB	.200	1.760	.000	750.000	REF	750.000	VS	750.000	VS	
(S1-027)	○	AEDC VA-422(A-57)	ORB/ET V/RIGHT SRB	.300	1.760	.000	750.000	SPE	750.000	SD	750.000	VS	



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACT. (RN/L=1.76, PT-JET=750)

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRB POS RV/L PT-JET BETA REFERENCE INFORMATION

[STL011]	AEDC VA-422(IA-57): ORB/ET V/RIGHT SRB	100	1.750	750.000	.000	SREF	750.0000	SD.FT.
[STL019]	AEDC VA-422(IA-57): ORB/ET V/RIGHT SRB	.200	1.750	750.000	.000	LBREF	750.0000	750.000
[STL027]	AEDC VA-422(IA-57): ORB/ET V/RIGHT SRB	.300	1.750	750.000	.000	SRREF	750.0000	750.000
						YREF	115.0000	XS
						ZREF	100.0000	YS
						SCALE	0.1000	15



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTER. (RV/L=1.76, PT-JET=750)

(A)MACH = 4.50

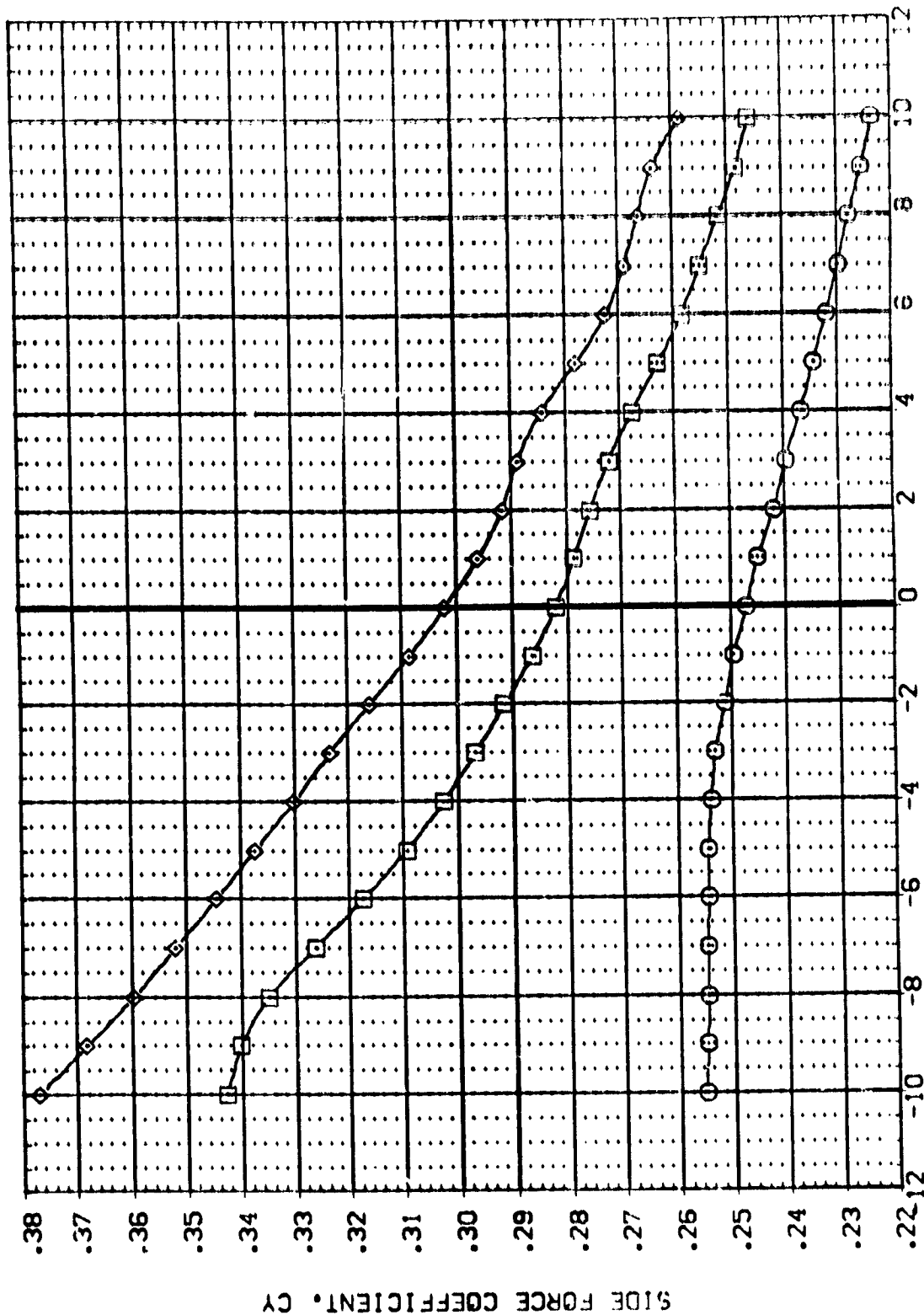
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DATA SET SYMBOL: [STL012] [STL070] [STL078]

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB; AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB; AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

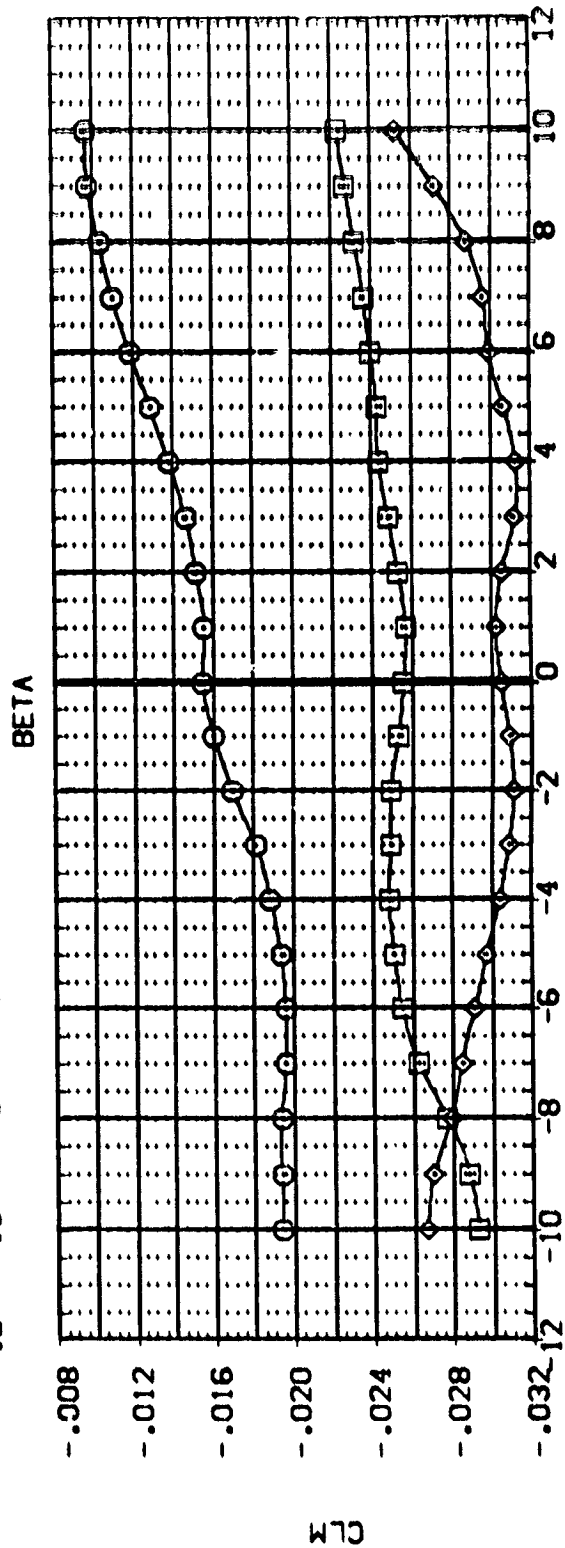
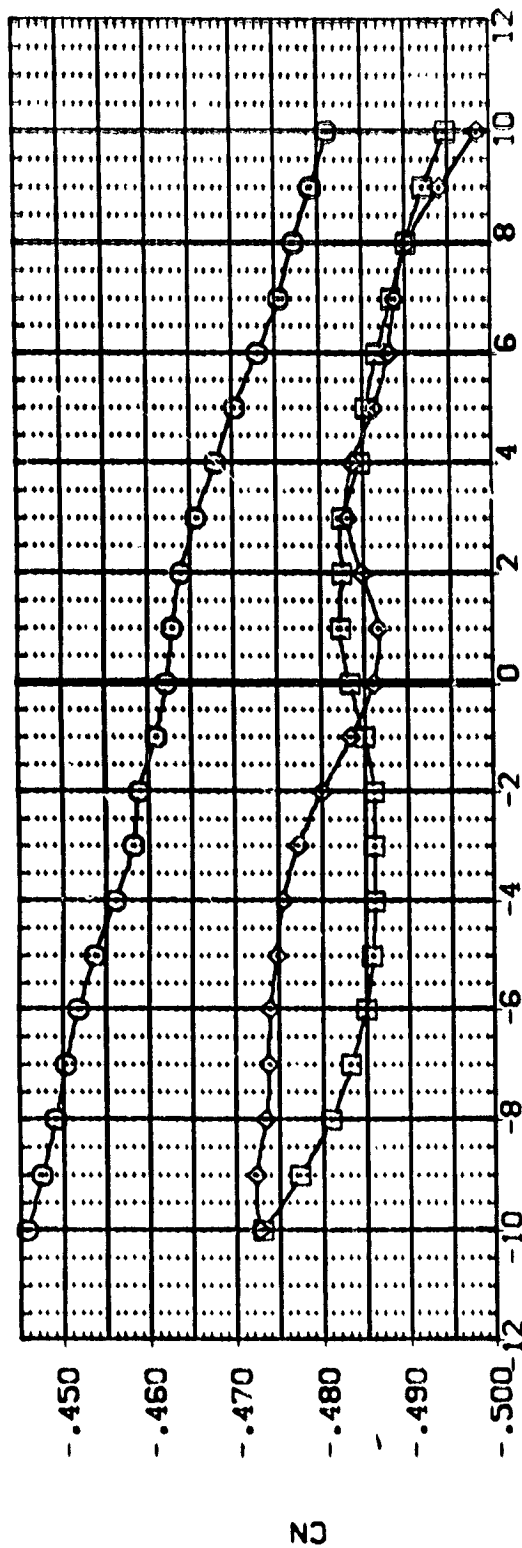
SERIES: SRB POS: .100, .200, .300; RV/L: 1.750, 1.750, 1.750; PT-JET: 750.000, 750.000, 750.000; ALPHA: .000, .000, .000

REFERENCE INFORMATION: SRB REF: 150.000, 150.000, 150.000; RV REF: 150.000, 150.000, 150.000; PT REF: 150.000, 150.000, 150.000; SCALE: 400.000, 400.000, 400.000



EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTER. (RV/L=1.75, PT-JET=750)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRRPDS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION	SO.FT.
[STLO12]	AEDC VA-422(A-57): ORB/ET W/R/IGHT SSB	.100	1.760	750.000	.000	SREF	7690.0000
[SILQ20]	AEDC VA-422(A-57): ORB/ET W/R/IGHT SSB	.200	1.760	750.000	.000	SREF	1790.0000
[STLO28]	AEDC VA-422(A-57): ORB/ET W/R/IGHT SSB	.300	1.760	750.000	.000	SREF	1790.0000
						SREF	1167.0000
						SREF	1490.0000
						SREF	1790.0000
						SCALE	400.0000
						SCALE	2000.0000



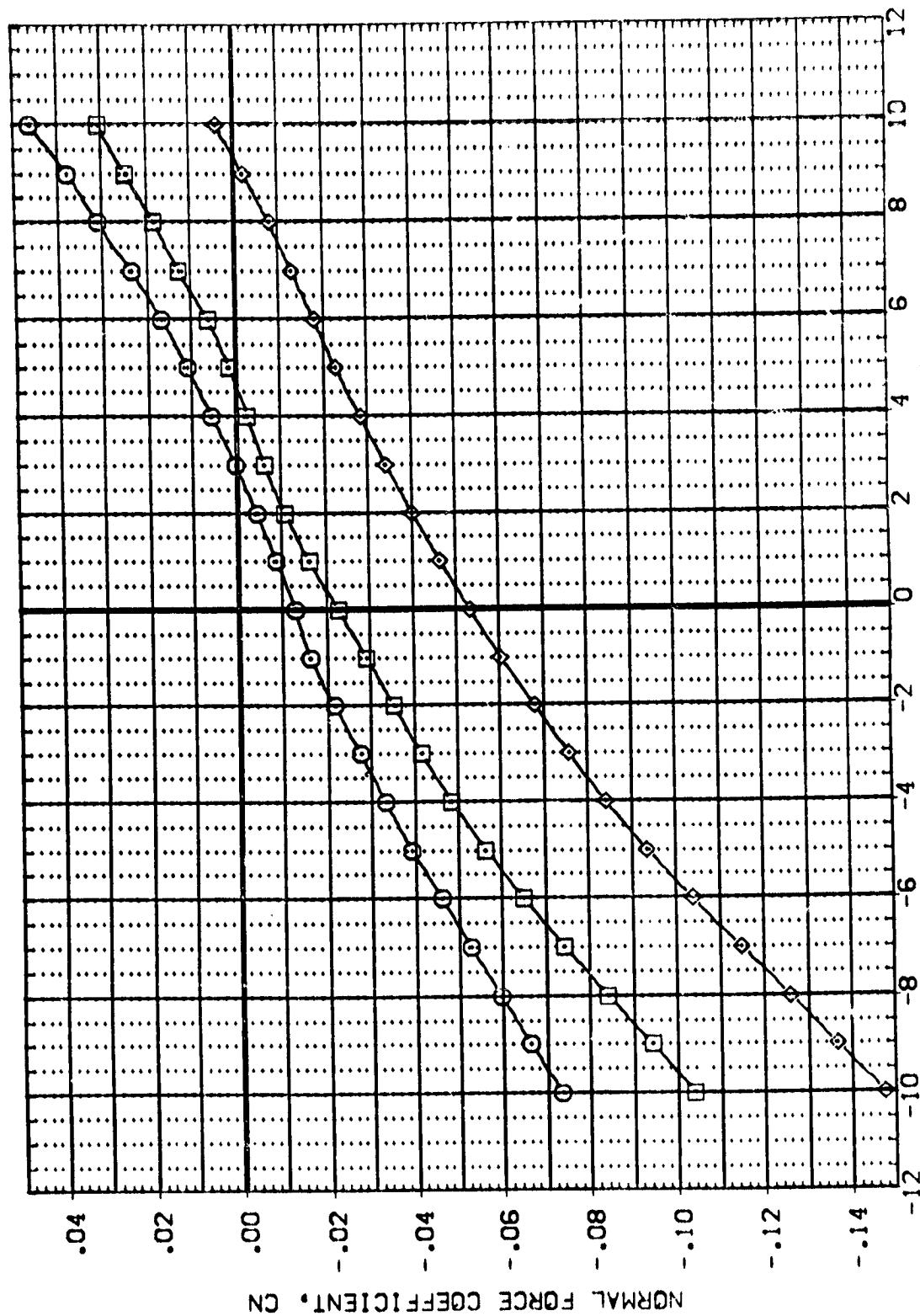
EFFECT OF ONLY ONE SRB SEPARATION ON SRB CHARACTER. (RN/L=1.76, PT-JET=750)

(A)MACH 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STL009) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 (STL017) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 (STL025) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

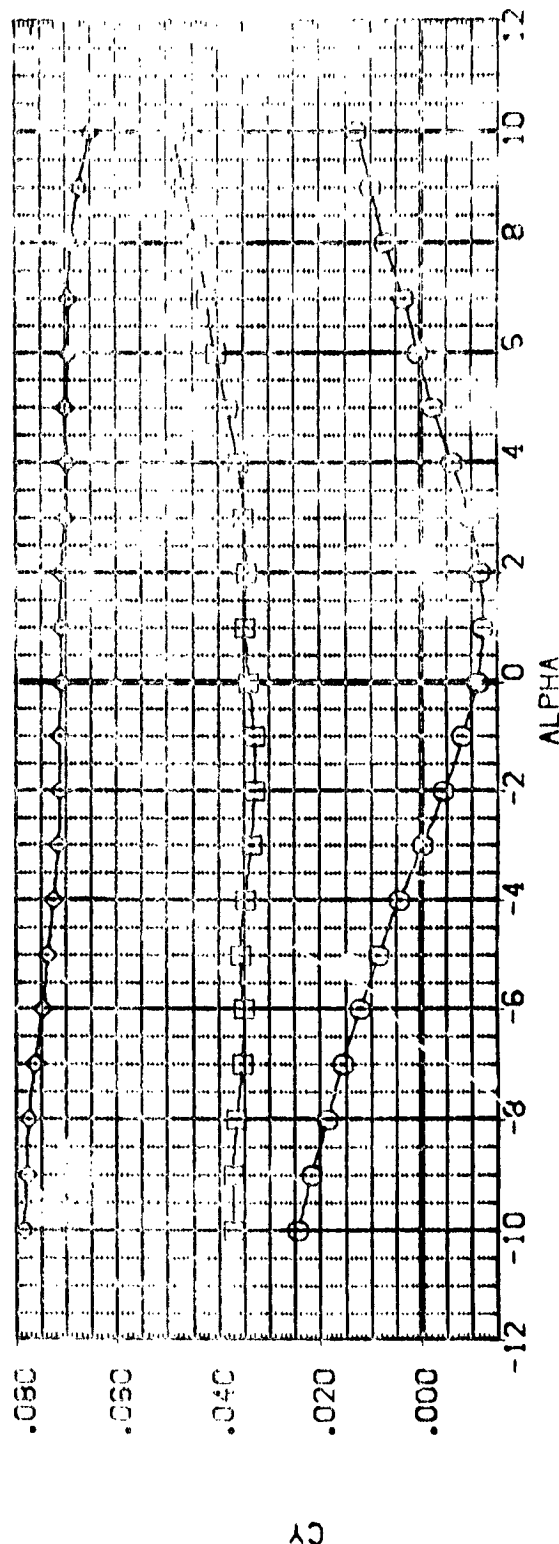
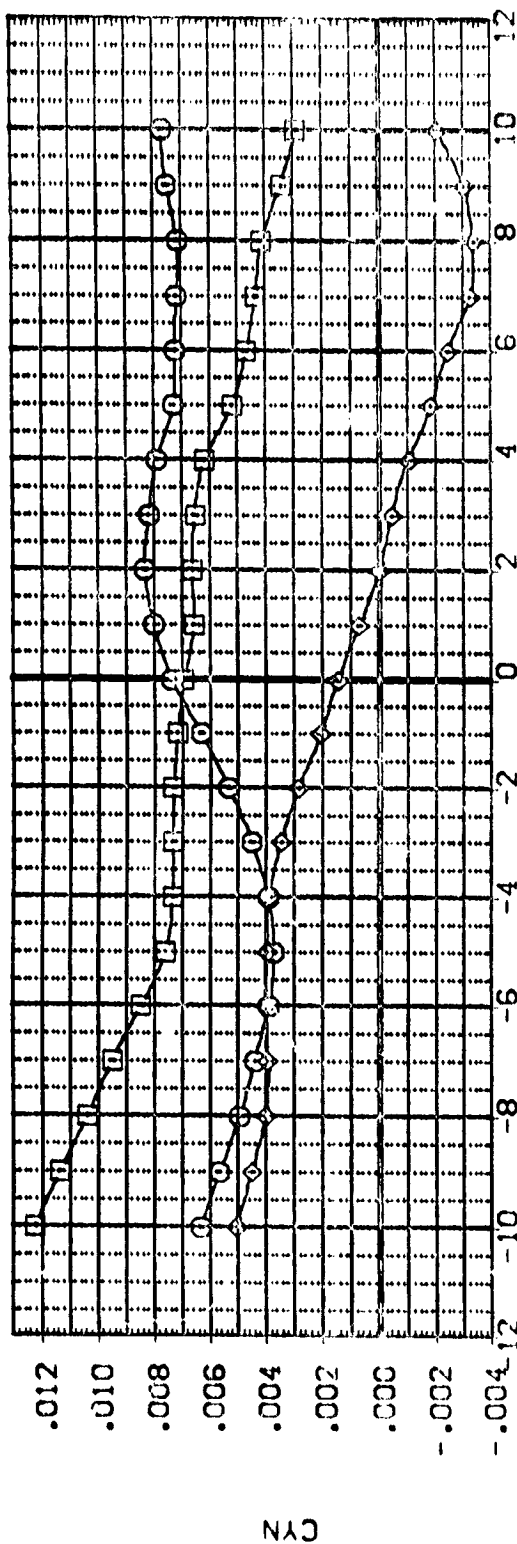
SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 .000 .000 SREF 2690.0000 SQ.FT.
 .200 1.760 .000 .000 LREF 1790.3000 IN.
 .300 1.760 .000 .000 BREF 1790.3000 IN.
 .000 .000 .000 .000 XMRP 1167.0000 IN.
 .000 .000 .000 .000 YMRP 400.0000 IN.
 .0100 SCALE



EFFECT OF ONLY ONE SRB W/O PLUMES SEPARATION ON SRB CHARACTER. (RV/L=1.76)

DATA SET SYMBOL: ST-0091
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-571): ORB/ET V/R/RIGHT SRB
 AEDC VA-422(1A-571): ORB/ET V/R/RIGHT SRB
 AEDC VA-422(1A-571): ORB/ET V/R/RIGHT SRB

SRB POS RV/L PT-JET BETA REFERENCE INFORMATION: SQ.FT.
 .100 1.750 .000 SREF 2650.0000
 .200 1.750 .000 LREF 1750.3000
 .300 1.750 .000 BREF 1750.3000
 .400 1.750 .000 XREF 1750.3000
 .500 1.750 .000 YREF 1750.3000
 .600 1.750 .000 ZREF 1750.3000
 .700 1.750 .000 SCALE 400.0000
 .800 1.750 .000
 .900 1.750 .000
 1.000 1.750 .000

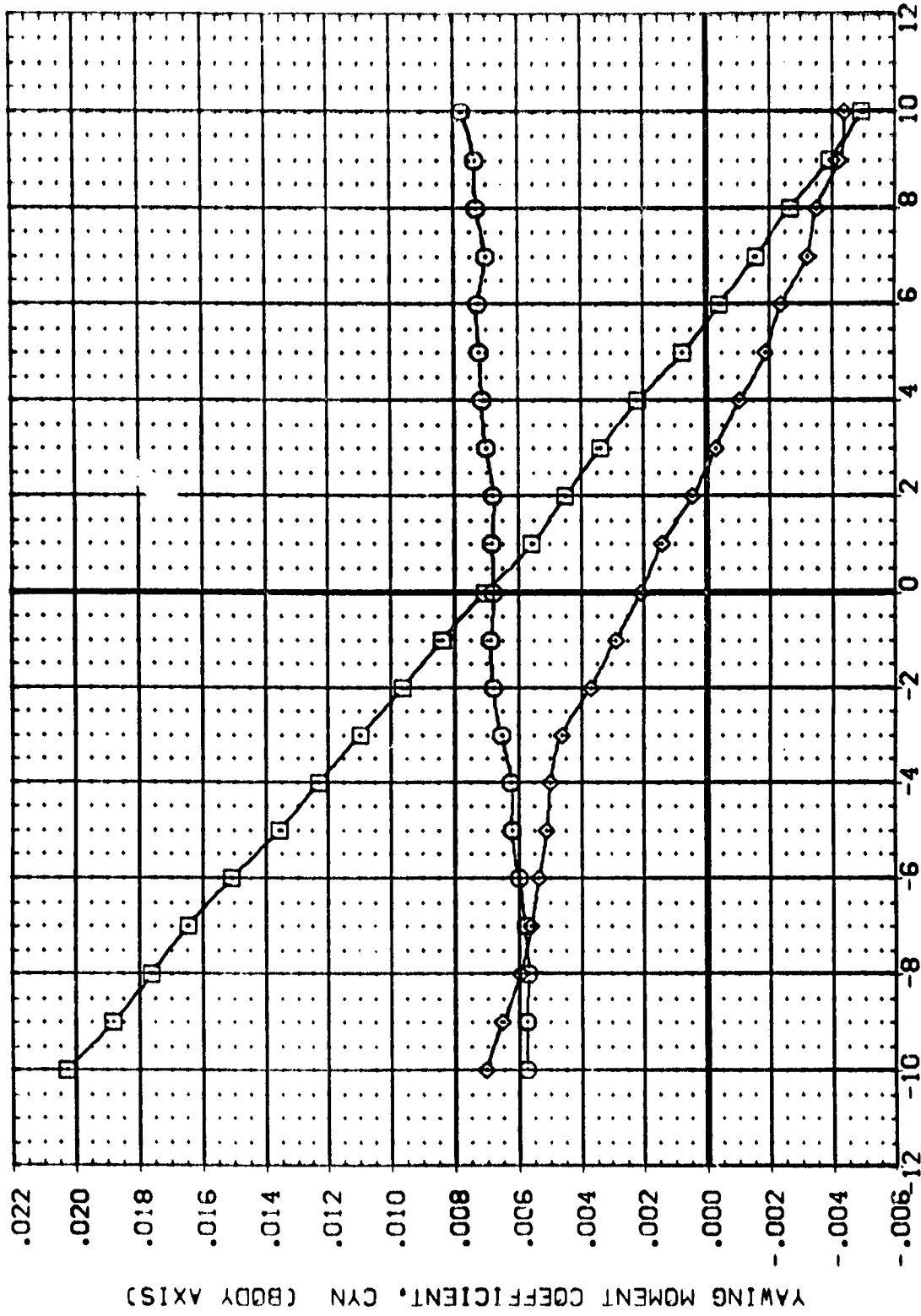


EFFECT OF ONLY ONE SRB W/O PLUMES SEPARATION ON SRB CHARACTERISTICS (RV/L=1.750)

(A)MACH = 4.50

Fig. 1

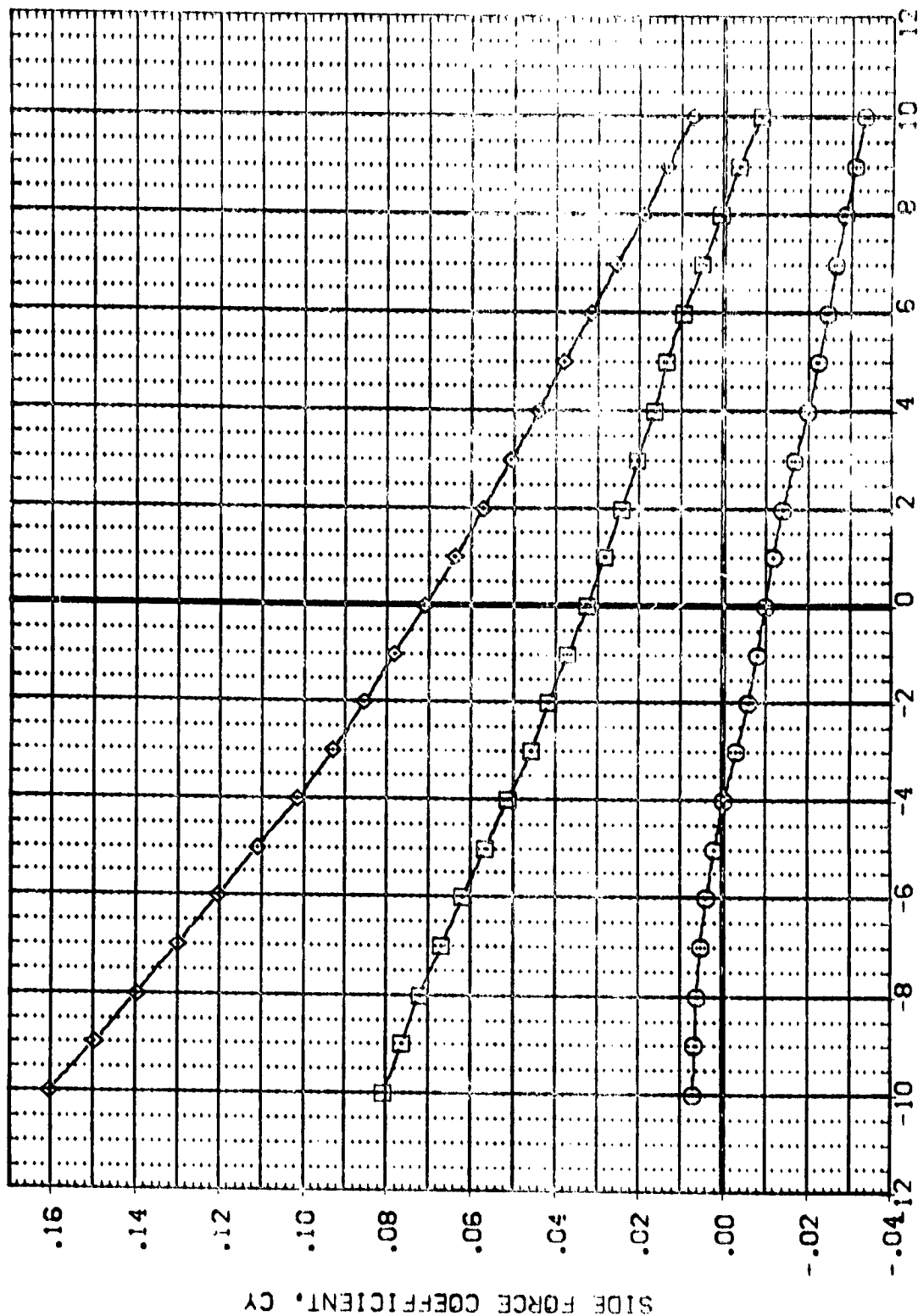
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRBPOS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(S)0101	Q	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.100	1.760	.000	.000	.000	.000	SRB	2690.0000	50.00	
(S)0108	X	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.200	1.760	.000	.000	.000	.000	SRB	1290.3000	50.00	
(S)0261	X	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.300	1.760	.000	.000	.000	.000	SRB	1290.3000	50.00	
										SRB	1167.0000	50.00	
										SRB	400.0000	50.00	
										SRB	400.0000	50.00	
										SRB	400.0000	50.00	



EFFECT OF ONLY ONE SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RV/L=1.76)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [STL010] AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB
 [STL018] AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB
 [STL026] AEDC VA-422(1A-57): ORB/ET V/R(IGHT) SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION:
 .100 1.750 .000 .000 SREF 3590.0000 SCF
 .200 1.750 .000 .000 LREF 1290.3000
 .300 1.750 .000 .000 BREF 1290.3000
 XPRP 1167.0000
 YPRP 400.0000
 ZPRP 0.0000
 SCALE 0.100

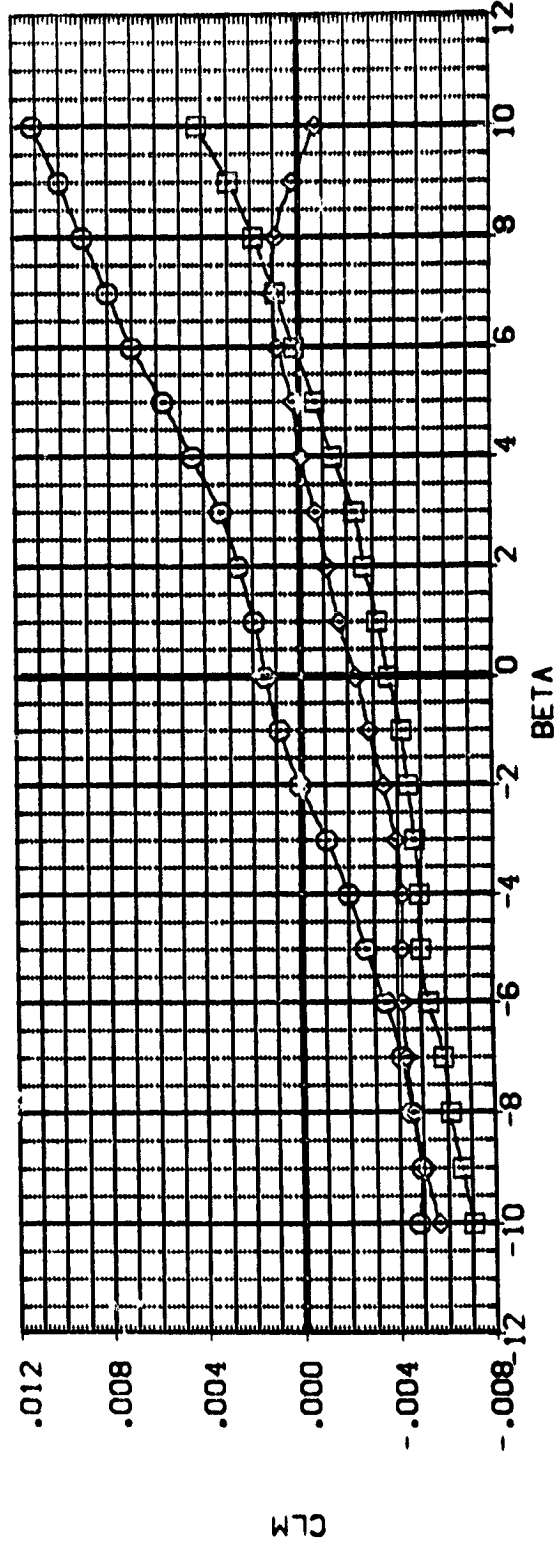
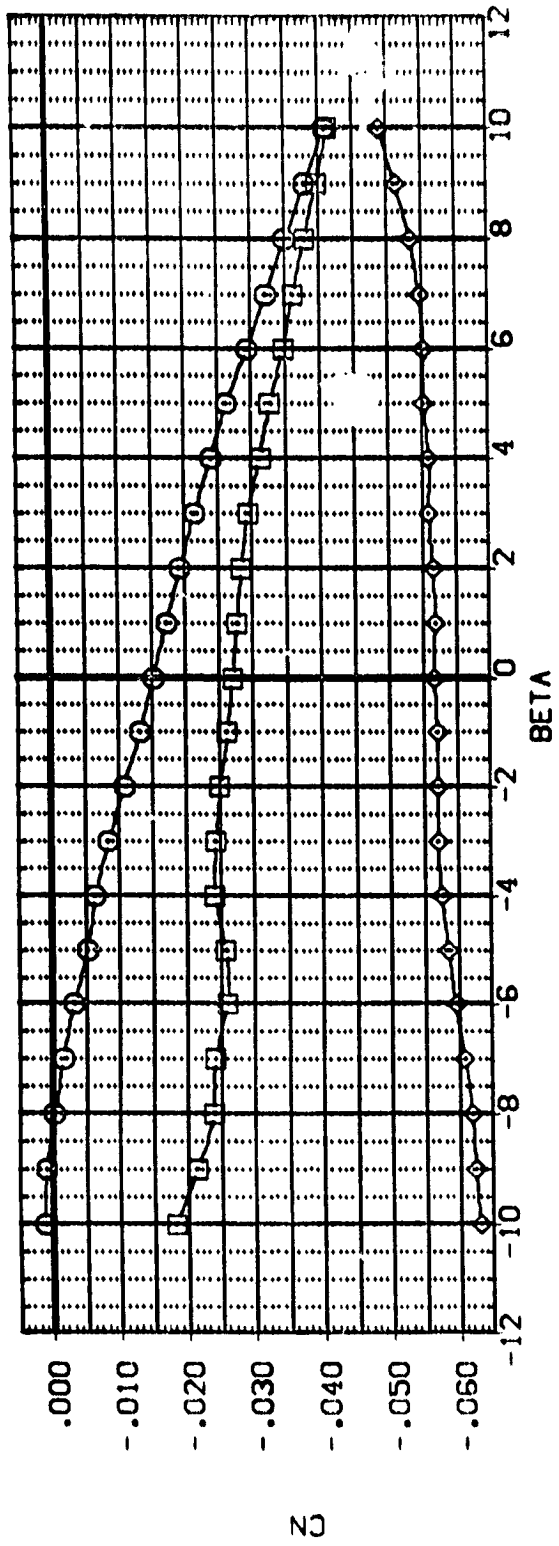


EFFECT OF ONLY ONE SRB W/O PLUMES SEPARATION ON SRB CHARACTER. (RV/L=1.75)

CAJ MACH = 4.50

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
{STLO10}	Q	AEDC VA-422(1A-57):	ORB/ET V/RIGHT SRB	.100	1.760	.000	.000	SREF	2690.0000	SO.FT.			
{STLO18}	Q	AEDC VA-422(1A-57):	ORB/ET V/RIGHT SRB	.200	1.760	.000	.000	LREF	1790.3000	IN.			
{STLO26}	Q	AEDC VA-422(1A-57):	ORB/ET V/RIGHT SRB	.300	1.760	.000	.000	BREF	1290.3000	IN.			
								APRP	1167.0000	IN.			
								VMPP	.0000	IN.			
								ZMPP	400.0000	IN.			
								SCALE	.0100	IN.			



EFFECT OF ONLY ONE SRB W/O PLUMES SEPARATION ON SRB CHARACT. (RV/L=1.76)

(A)MACH = 4.50

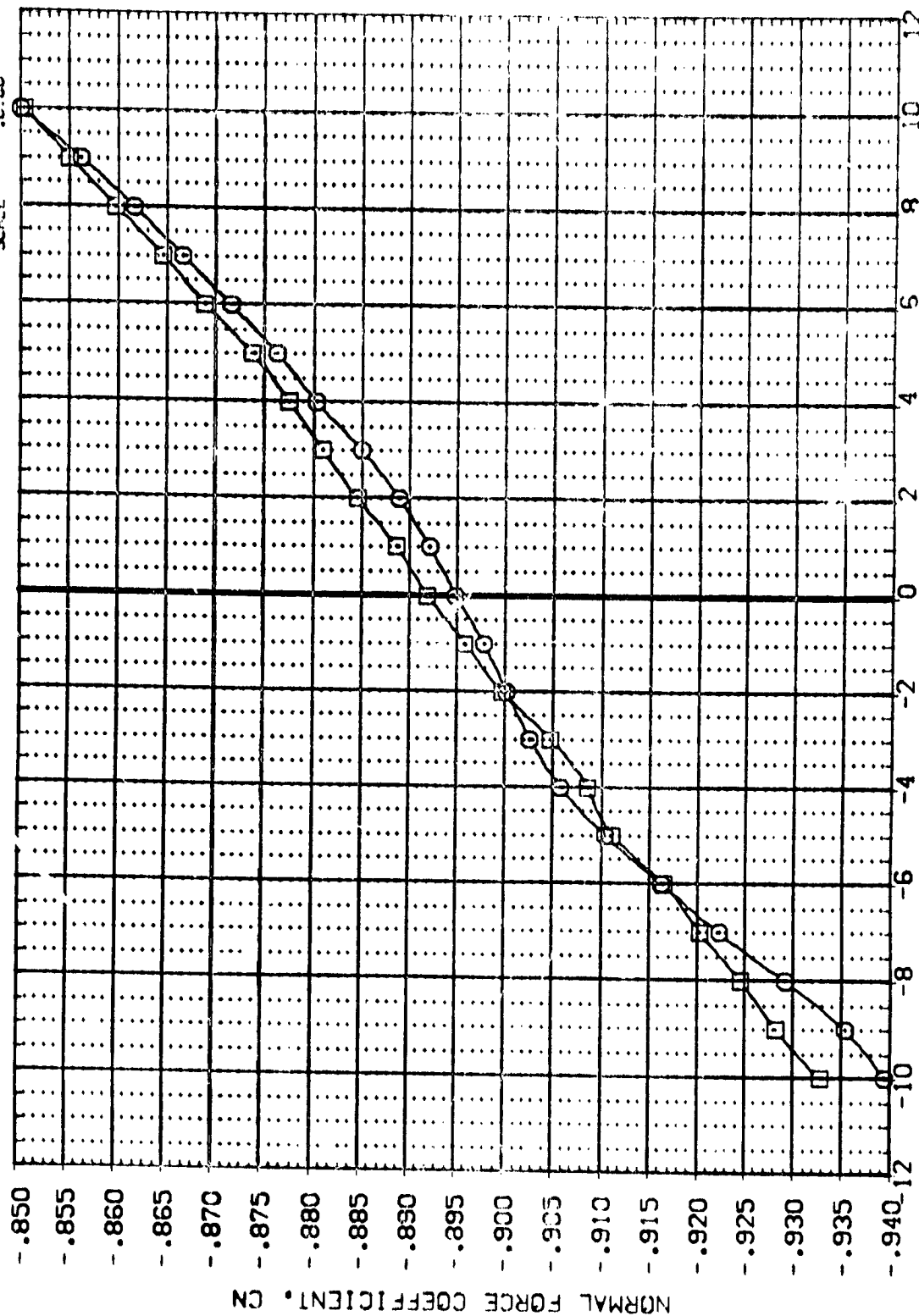
DATA SET SYMBOL

(STLO13)
(STLO38)

CONFIGURATION DESCRIPTION
AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRBPDS RV/L PT-JET BETA
.100 1.760 1500.000
1.100 1.760 1500.000

REFERENCE INFORMATION
SREF 2690.3000 SQ. FT.
LREF 1790.3000 IN.
BREF 1790.3000 IN.
XMRP 11.67 0000 IN. X5
YMRP 400.0000 IN. Y5
ZMRP 0.0100 IN. Z5
SCALE



ANGLE OF ATTACK, ALPHA, DEGREES

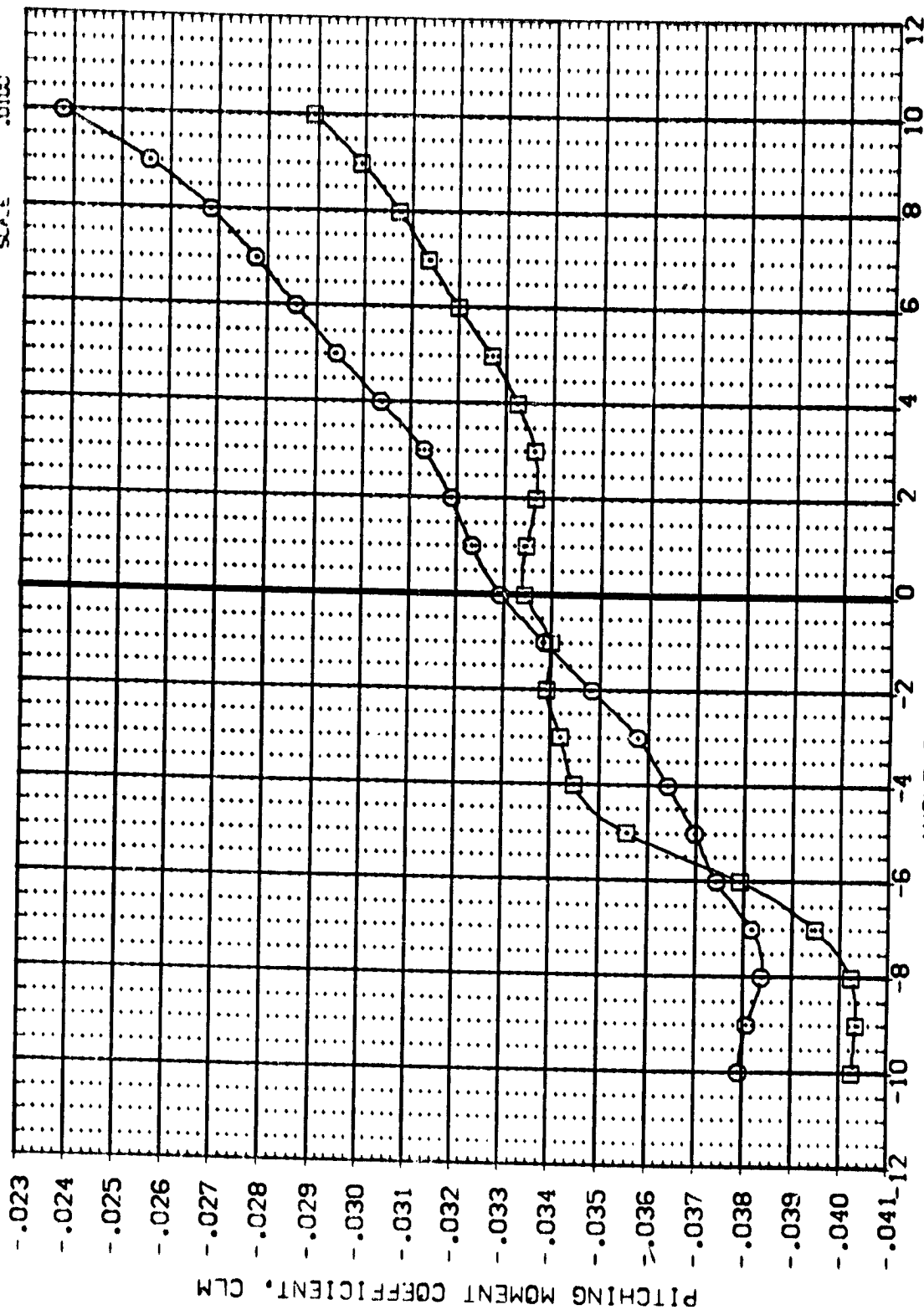
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=1500)

(A)MACH = 4.50

PAGE 000

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (SLO:3) AEDC VA-422(A-57): ORB/ET V/RIGHT SRB
 (SLO:38) AEDC VA-422(A-57): ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 1500.000 .000 SREF 2690.0000 SQ.FT.
 1.100 1.760 1500.000 .000 LREF 1790.3000 IN.
 BREF 1790.3000 IN. XS
 XMRP 1167.0000 IN. YS
 YMRP 400.0000 IN. ZS
 ZMRP 400.0000 IN.
 SCALE .0100

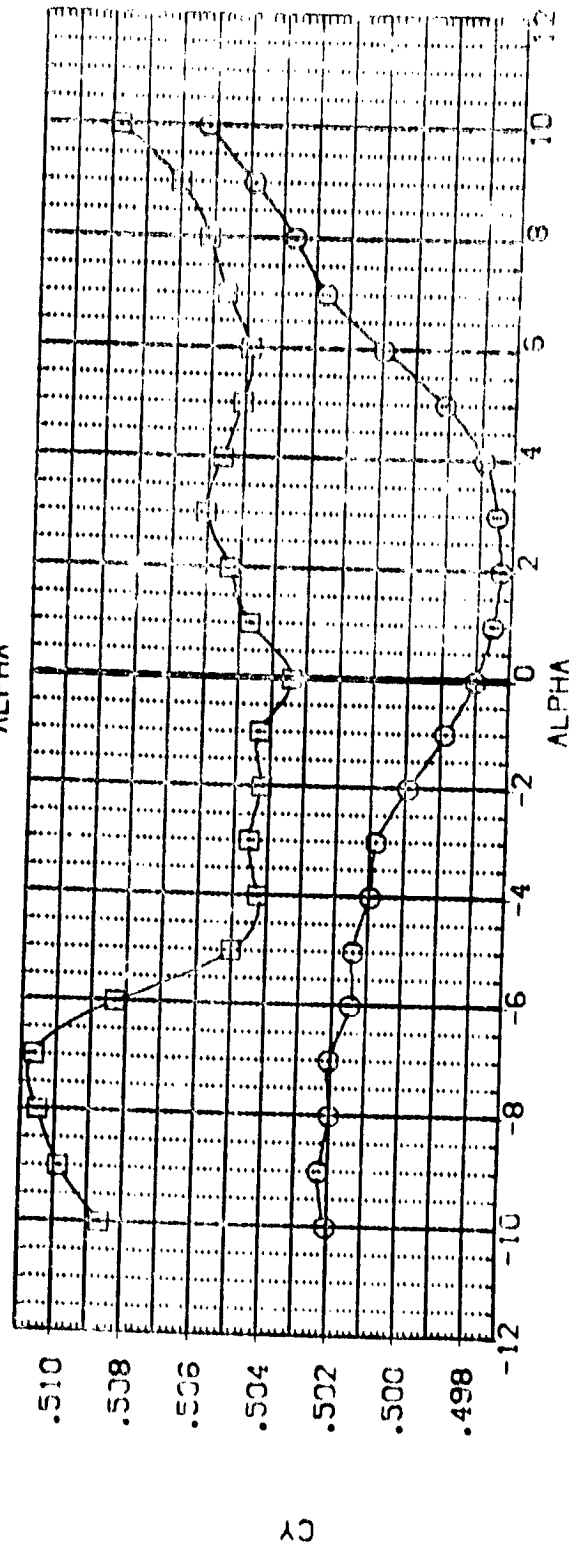
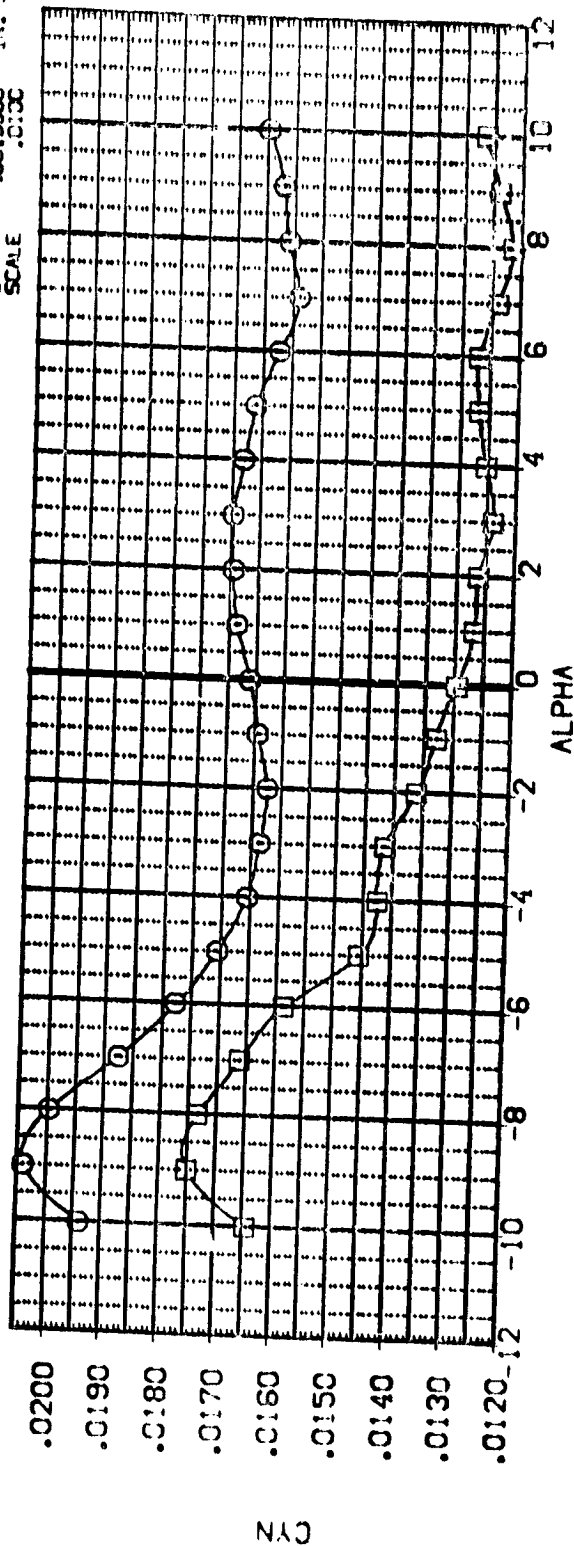


EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=1500)

(A) $MACH = 4.50$

DATA SET SYMBOL: [S1013]
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRB POS: .100
 RV/L: 1.760
 PT-JET: 1500.000
 BETA: .000
 REFERENCE INFORMATION:
 SREF: 7690.0000
 LREF: 1290.3000
 BREF: 1290.3000
 XMRD: 1167.0000
 YMRD: 400.0000
 ZMRD: 400.0000
 SCALE: .0100



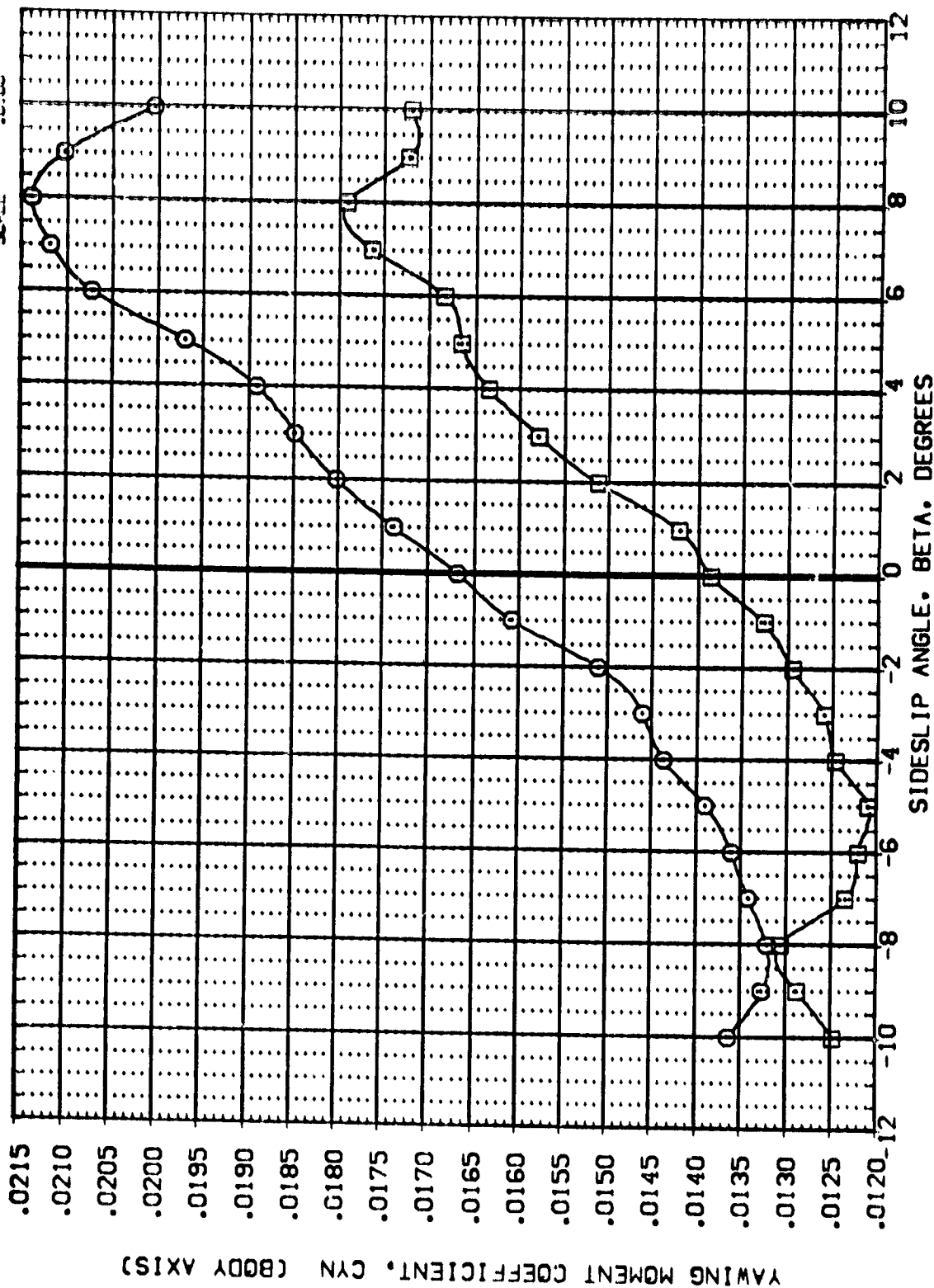
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=1500)
 CADMAC = 4.50

11-3-11

DATA SET SYMBOL: 9
 CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET ALPHA
 .100 1.760 1500.000 .000
 1.100 1.760 1500.000 .000

REFERENCE INFORMATION:
 SREF 2630.0000 SD.FT.
 LREF 1390.3000 IN.
 BREF 1390.3000 IN.
 YREF 1167.0000 IN.
 ZREF 400.0000 IN.
 SCALE 0.100



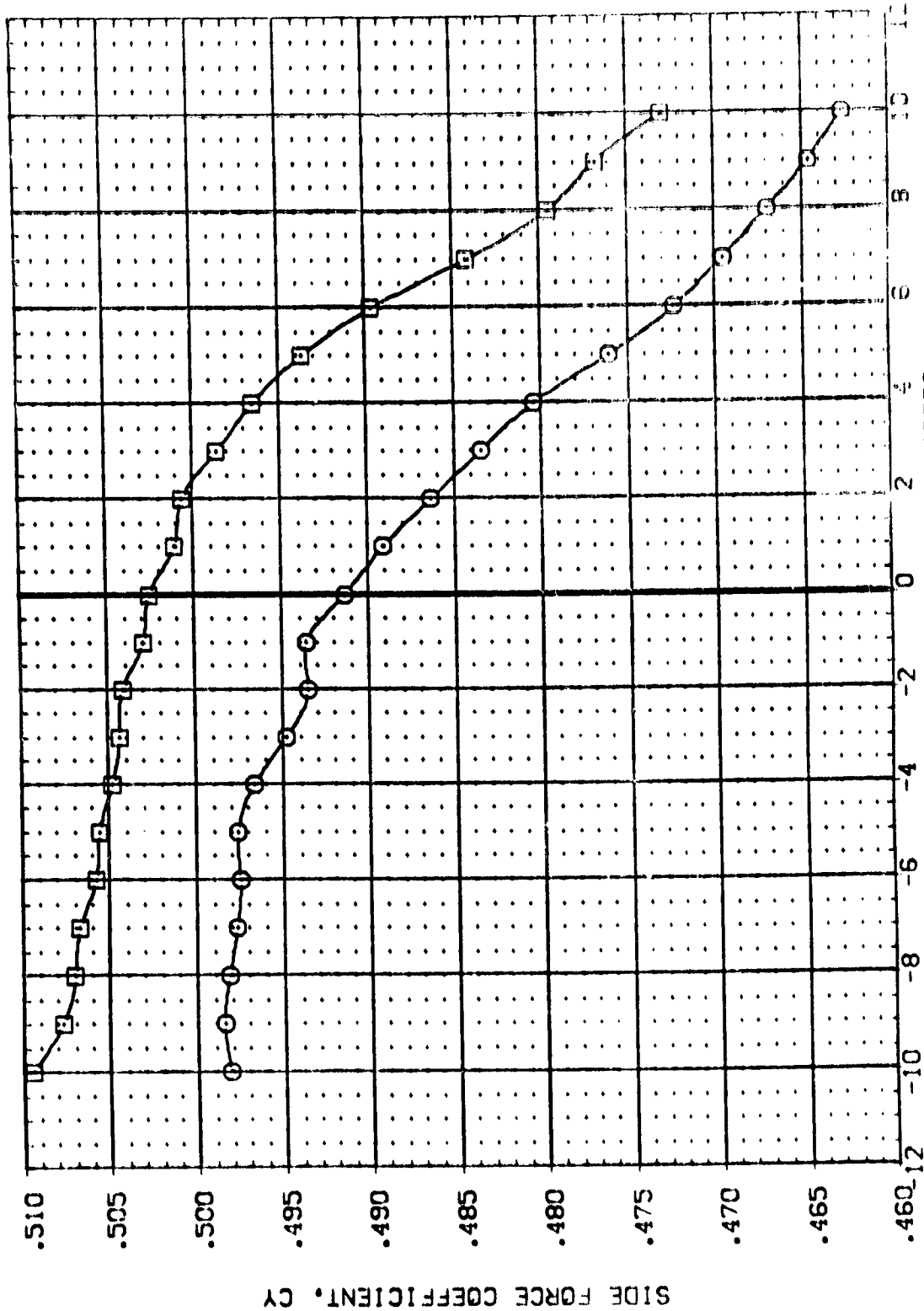
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=1500)

CALMACH = 4.50

DATA SET SYMBOL: ST-014
 CONFIGURATION DESCRIPTION: AEDC VA-422(A-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(A-57), ORB/ET V/BOTH SRB

SRR705 ROL PT-JET ALPHA
 1.100 1.760 1500.000
 1.100 1.760 1500.000

REFERENCE INFORMATION:
 SREF 1530.0000
 LREF 1790.0000
 BREF 1790.0000
 YREF 1167.0000
 XREF 400.0000
 SCALE 10100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1 - CENTERED)

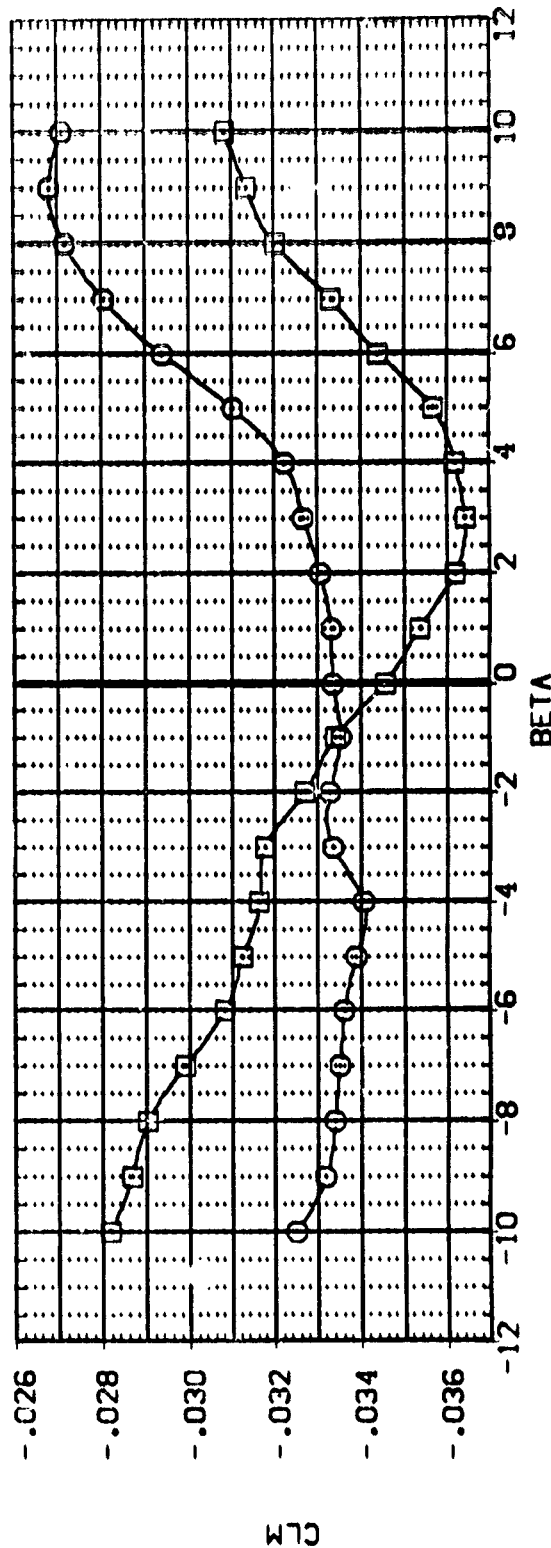
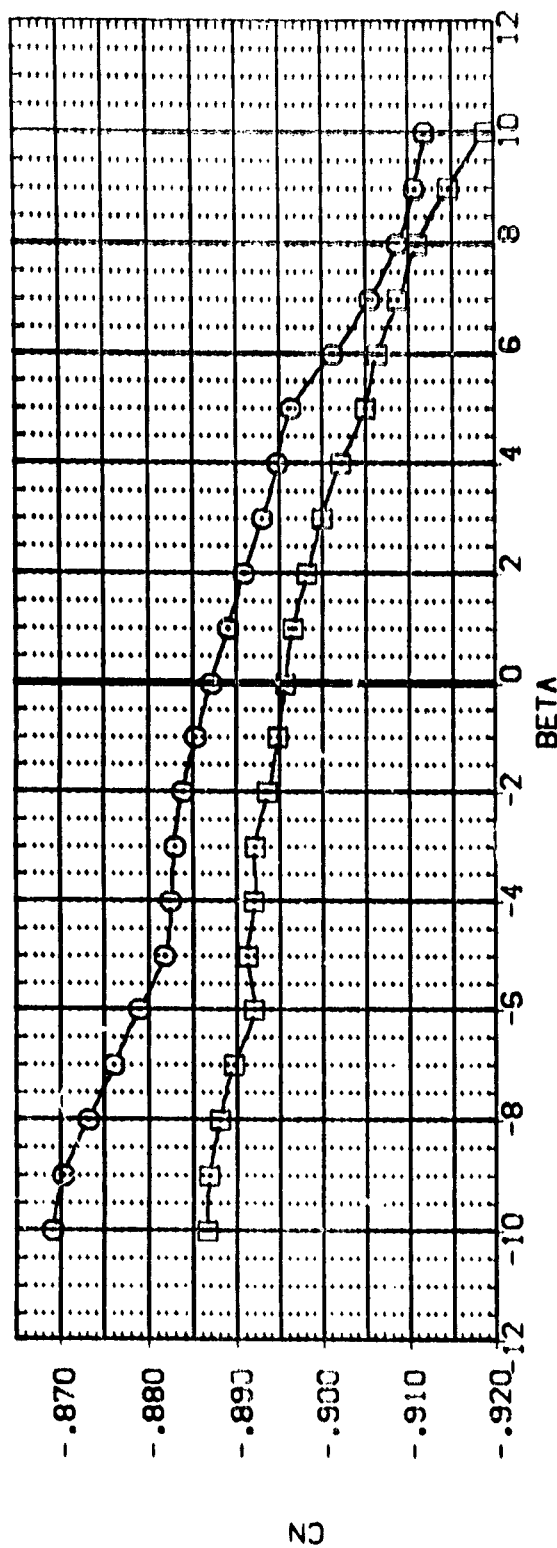
CALCULATED = 4.50



CONFIGURATION	DESCRIPTION
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98	...
99	...
100	...

STATUS	REV/L	PT-JET	ALPHA
1.00	1.760	1500.000	.000
1.100	1.760	1500.000	.000

REFERENCE INFORMATION	
SPEC	2890.0000
REF	1790.3000
SPEC	1790.3000
REF	115.0000
SCALE	100.0000
SCALE	100.0000



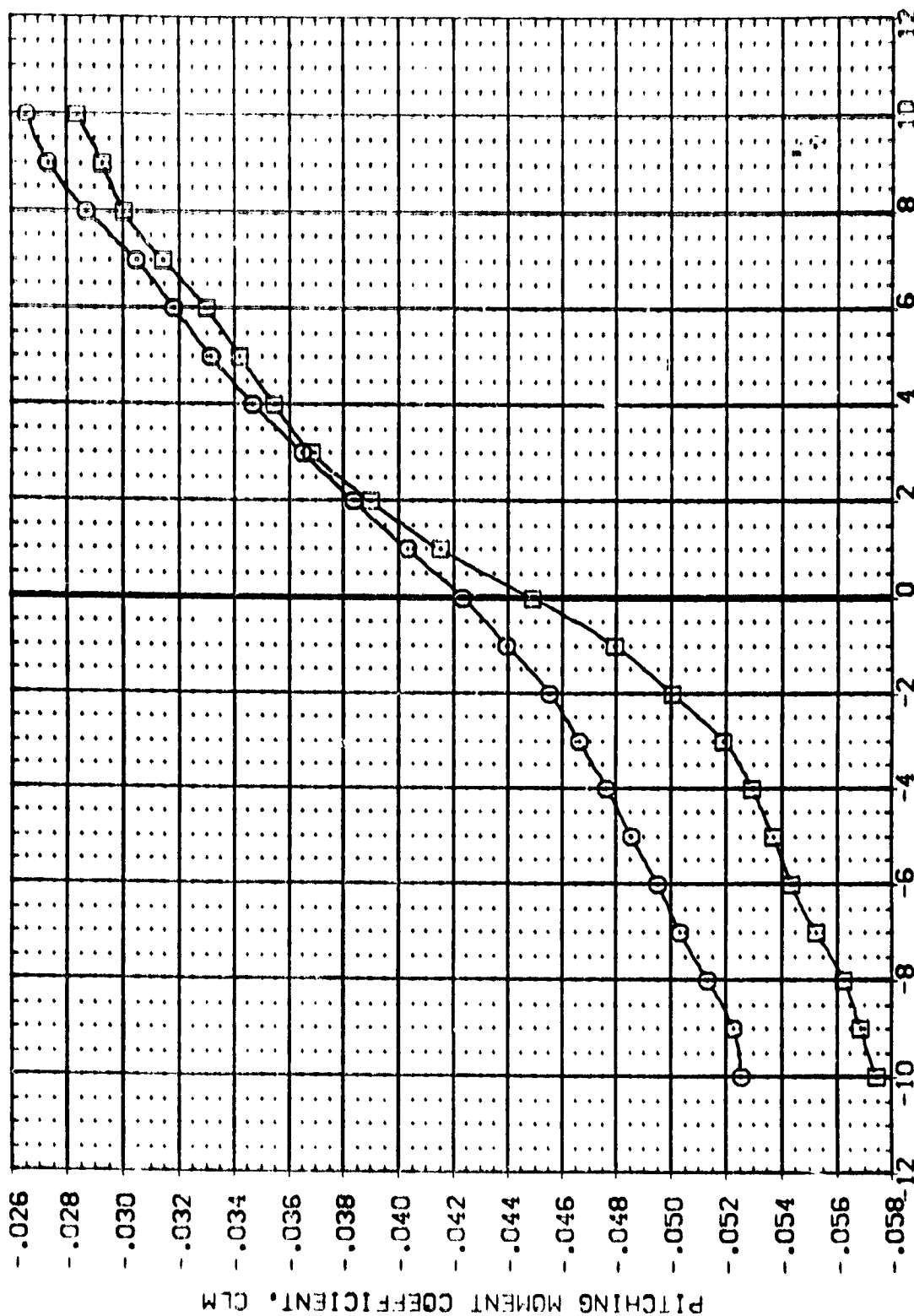
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=1500)

$$[A]_{MACH} = 4.50$$

07
1-4
11
12
13
14

DATA SET SYMBOL: [S1021]
 [S1021] AEDC VA-422(1A-571), OPR/ET W/RIGHT SRB
 [S1021] AEDC VA-422(1A-571), OPR/ET W/BOTH SRB

SRB POS: -200, -200, 2,200
 RV/L: 1,760, 1,760, 1500,000
 PT-JET: 1500,000, 1500,000
 BETA: .000, .000
 REFERENCE INFORMATION:
 SPEC: 1500,000, 1500,000, 1500,000
 LRE: 1500,000, 1500,000, 1500,000
 SRE: 1500,000, 1500,000, 1500,000
 VISO: 1500,000, 1500,000, 1500,000
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 SCALE: 1500,000, 1500,000, 1500,000



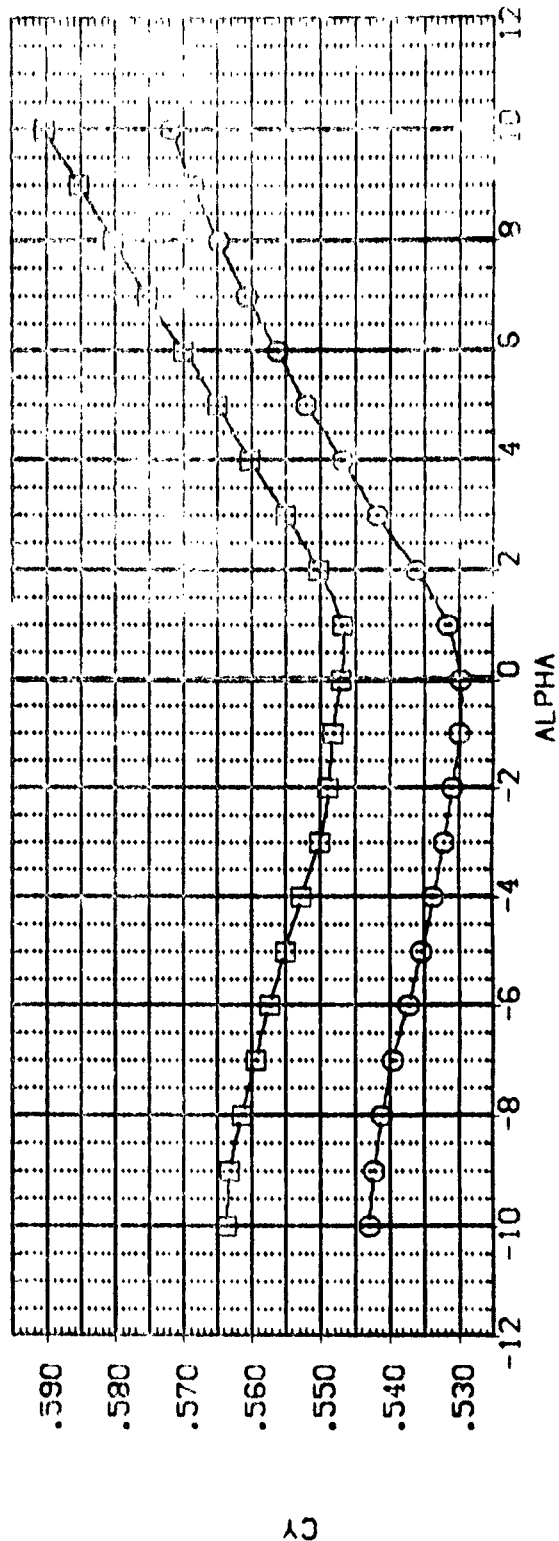
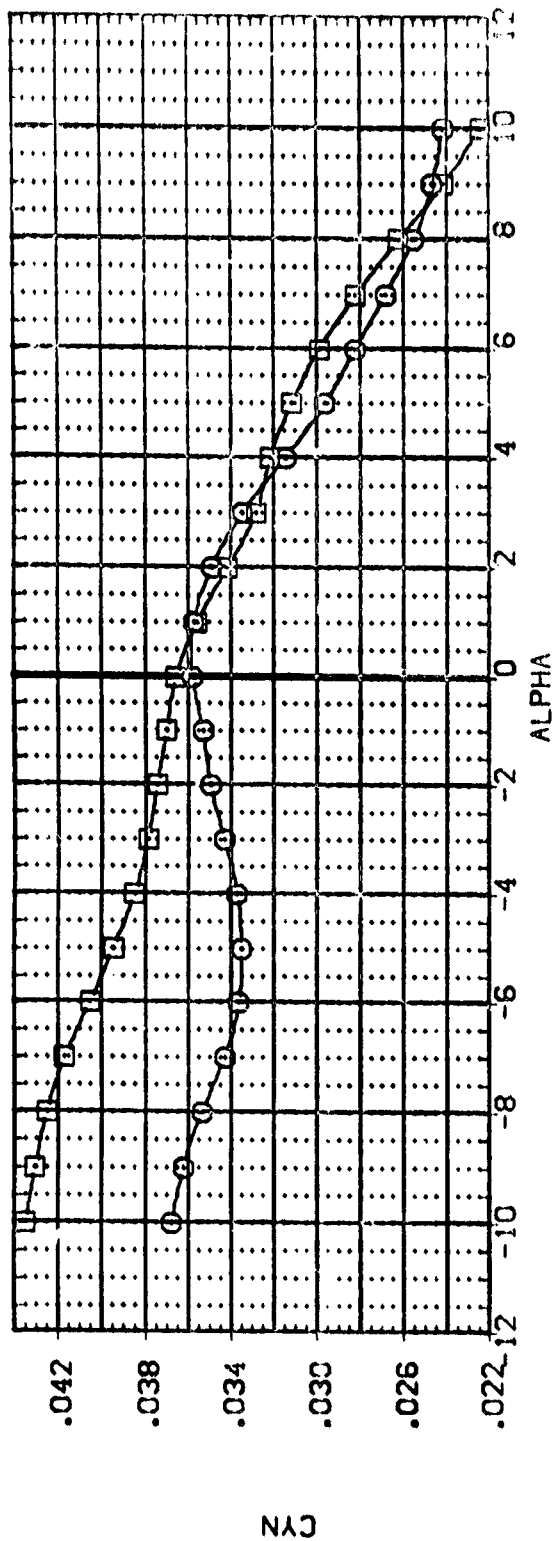
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=1500)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STL021) AEDC VA-422(1A-57): SRB/ET V/RIGHT SRB
 (STL049) AEDC VA-422(1A-57): SRB/ET V/BOTH SRB

SRRPOS RV/L PT-JET BETA
 .200 1.760 1500.000 .000
 2.200 1.760 1500.000 .000

REFERENCE INFORMATION
 SREF 2590.0000
 LREF 1250.3000
 XREF 1250.3000
 YREF 1167.0000
 ZREF 400.0000
 SCALE .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=1500)

CAMACH = 4.50

PAGE

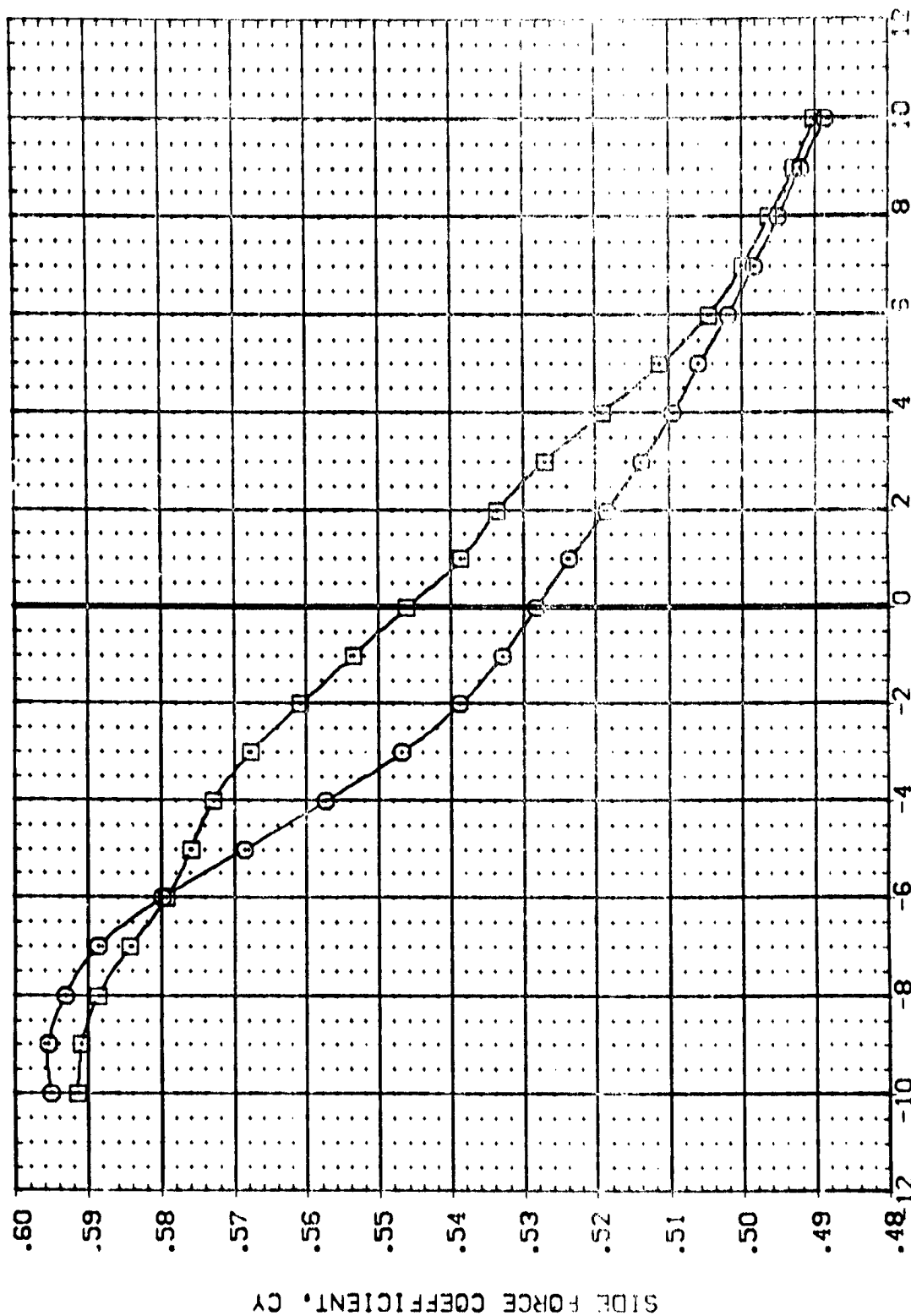
DATA SET SYMBOL: AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (STL022) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (STL050)

SRB POS: 200
 2,200

RN/L: 1,760 1500,000
 1,760 1500,000

PT-JET: ALPHA: .000
 .000

REFERENCE INFORMATION:
 SREF: 1650,0000 SCAL: 15
 LREF: 1750,0000 SCAL: 15
 BREF: 1750,0000 SCAL: 15
 YREF: 1157,0000 SCAL: 15
 ZREF: 400,0000 SCAL: 15
 SCALE: 0.0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=1500)

(A)MACH = 4.50

--SE 104



DATA SET SYMBOL: (S1022) (S1050)

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

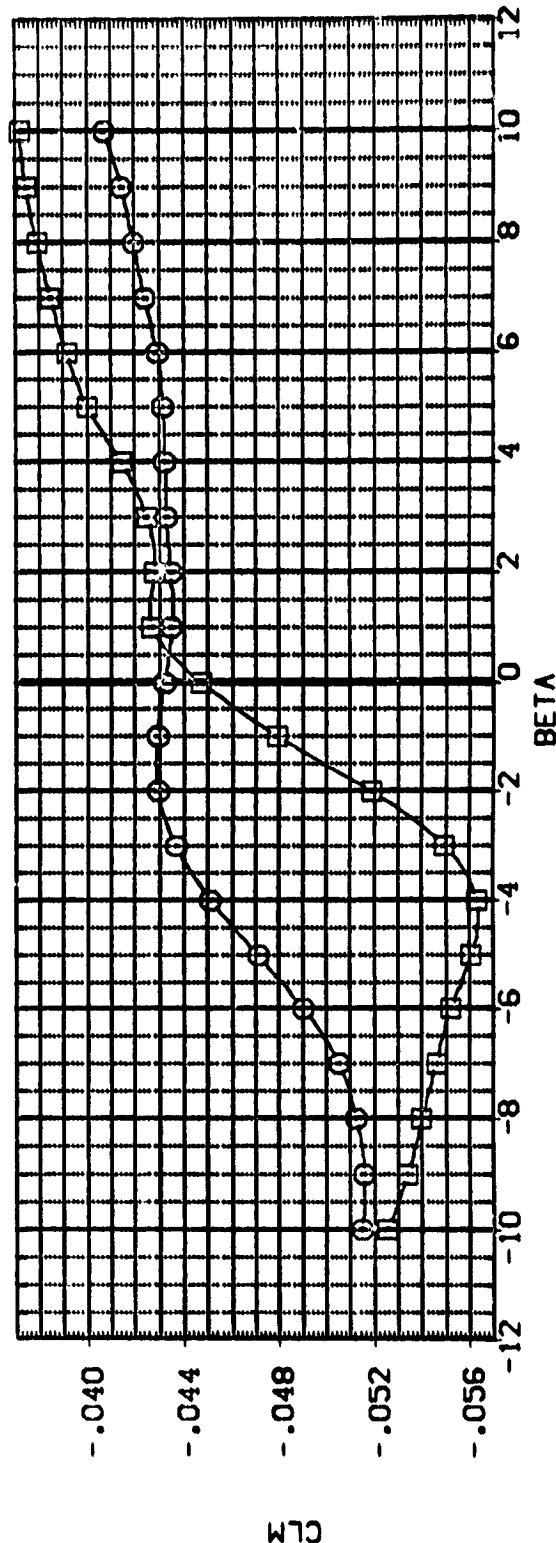
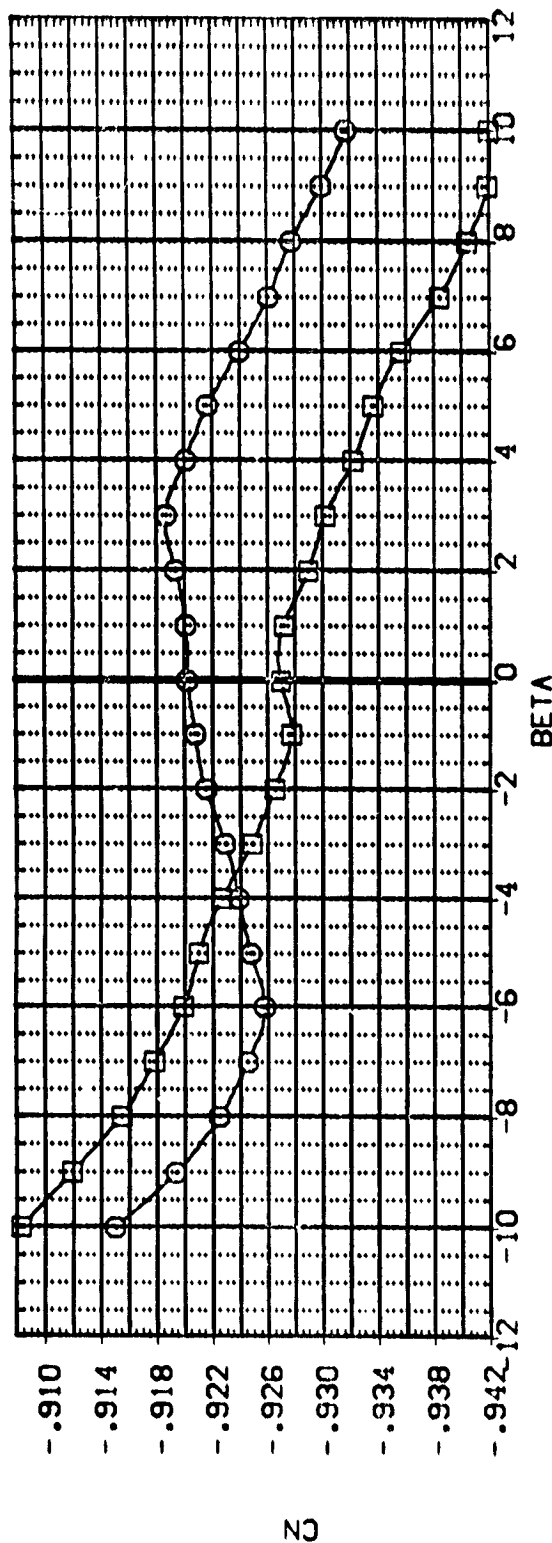
SRB POS: -200
 2,200

RVL: 1,760 1500.000
 1,760 1500.000

PT-JET: .000
 .000



ALPHA: .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 50.00
 LREF: 1290.3000 10.00
 BREF: 1290.3000 10.00
 XPROP: 1167.0000 10.00
 YPROP: .0000 10.00
 ZPROP: 400.0000 10.00
 SCALE: .0100



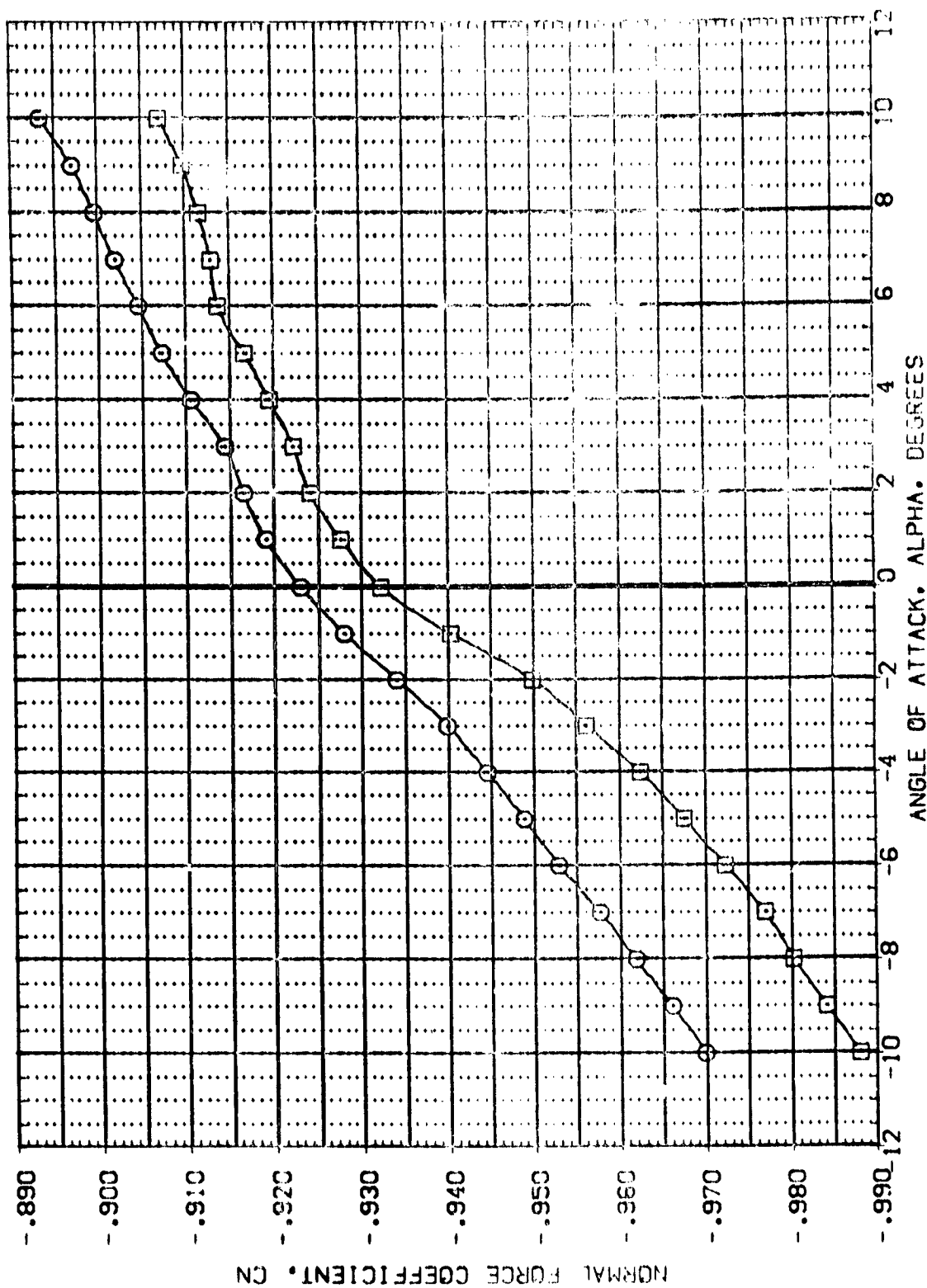
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=1500)

(AJMACH = 4.50)

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
[STC029]		AEDC VA-422(1A-57).	ORB/ET V/RIGHT SR8
[STC060]		AEDC VA-422(1A-57).	ORB/ET V/BOTH SR8

SREP05	RM/L	PI-JE1	BETA
.300	1.760	150.000	.000
3.300	1.760	150.000	.000

EF	2890.0000	SC.11.
EF	1290.3000	11.
EF	1290.3000	11.
RP	1157.0000	11.
RP	0.0000	11.
RP	400.0000	11.
ALE	0.0100	11.



DATA SET SYMBOL: 9
 (STL028)
 (STL060)

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

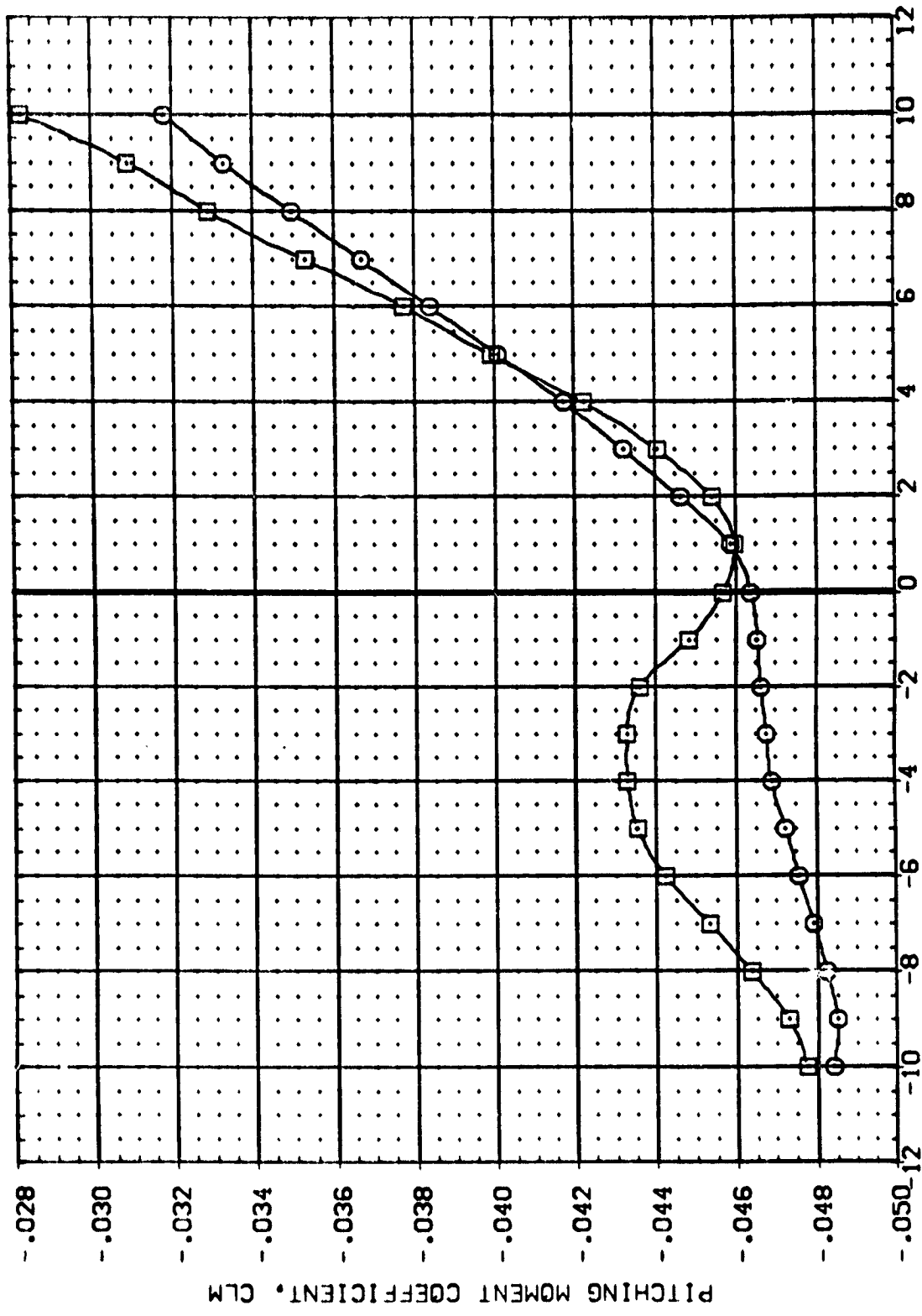
SRRPOS: .300
 3.300

RN/L: 1.760
 1.760

PT-JET: 1500.000
 1500.000

BETA: .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 IN.
 BREF: 1290.3000 IN.
 XMRP: 1167.0000 IN.
 YMRP: 400.0000 IN.
 ZMRP: 400.0000 IN.
 SCALE: .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=1500)

DATA SET SYMBOL: (STL029) (STL050)

CONFIGURATION DESCRIPTION: A. VA-422(1A-57), ORB/ET V/RIGHT SRB; AL. VA-422(1A-57), ORB/ET V/BOTH SRB

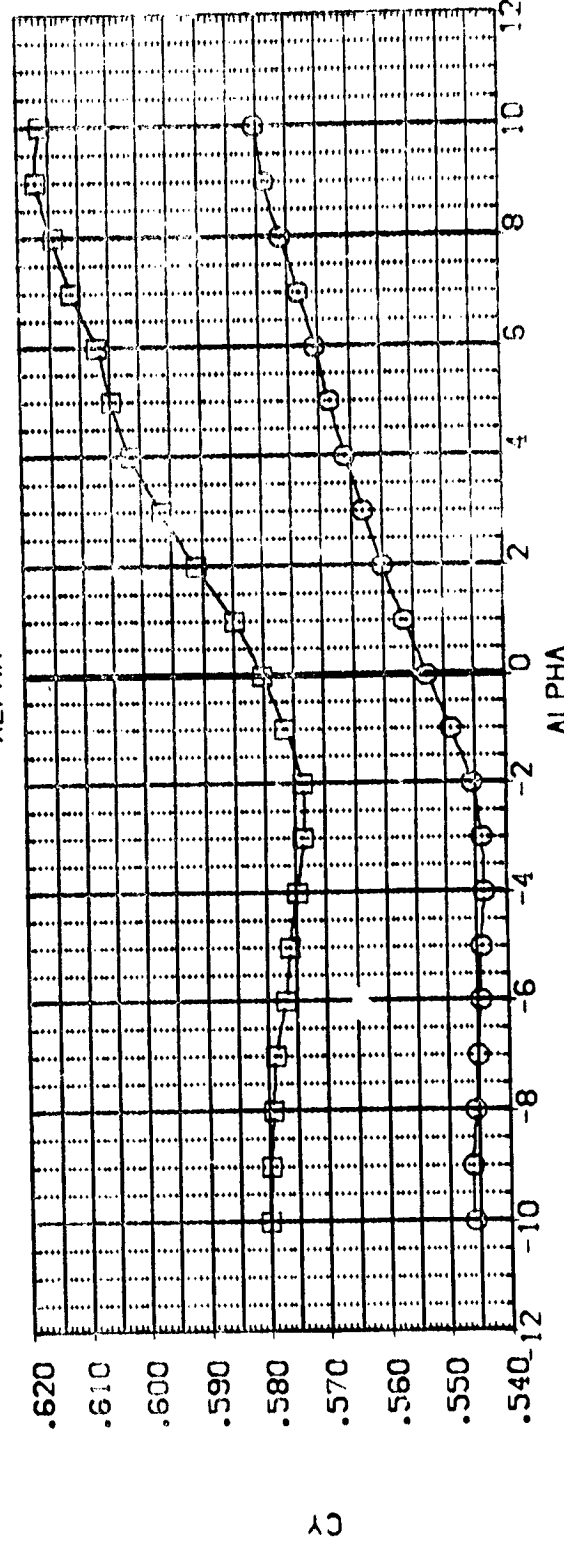
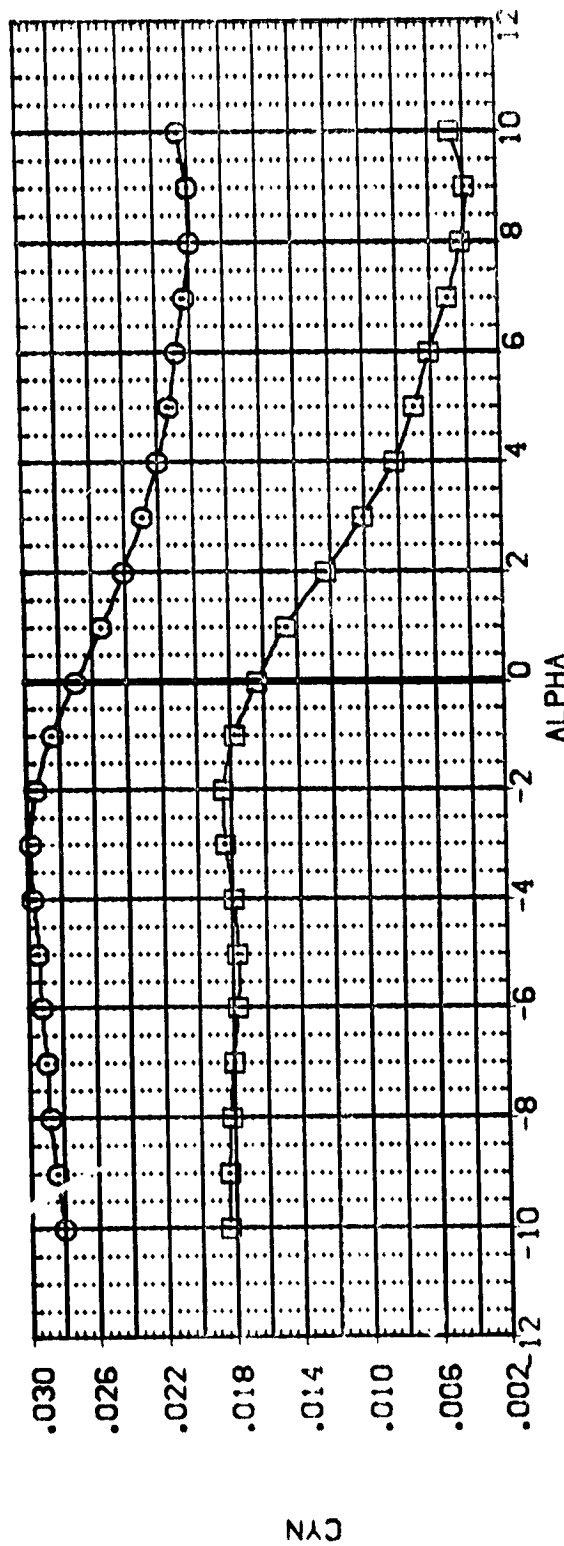
SRB POS: 300, 3,300

RN/L: 1.760, 1500.000

PT-JET: .000, .000

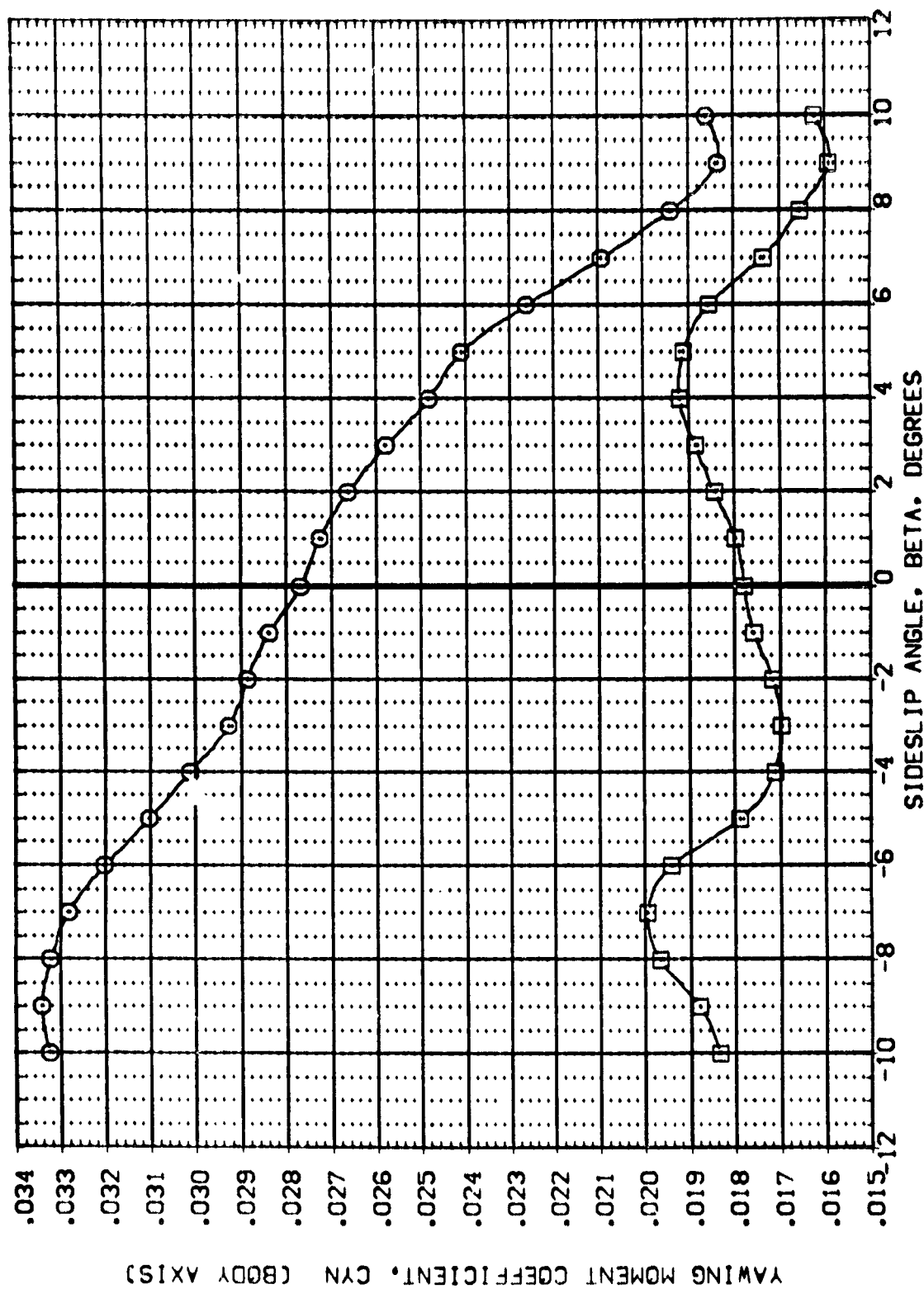
BETA: .000, .000

REFERENCE INFORMATION: SREF 2690.0000, LREF 1290.3000, BREF 1290.3000, XMRP 1167.0000, YMRP 400.0000, ZMRP .0100, SD.FT. IN. XS IN. YS IN. ZS IN.



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=1500)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRRPOS	RVL	PT-JET	ALPHA	REFERENCE INFORMATION
[STL030]	AEDC VA-422[1A-57], ORB/ET W/RIGHT SR8	.300	1.760	1500.000	.000	SREF 2690.0000 SQ.FT.
[STL061]	AEDC VA-422[1A-57], ORB/ET W/BOTH SR8	3.300	1.760	1500.000	.000	LREF 1290.3000 IN.
						SREF 1290.3000 IN.
						XREF 1167.0000 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0100



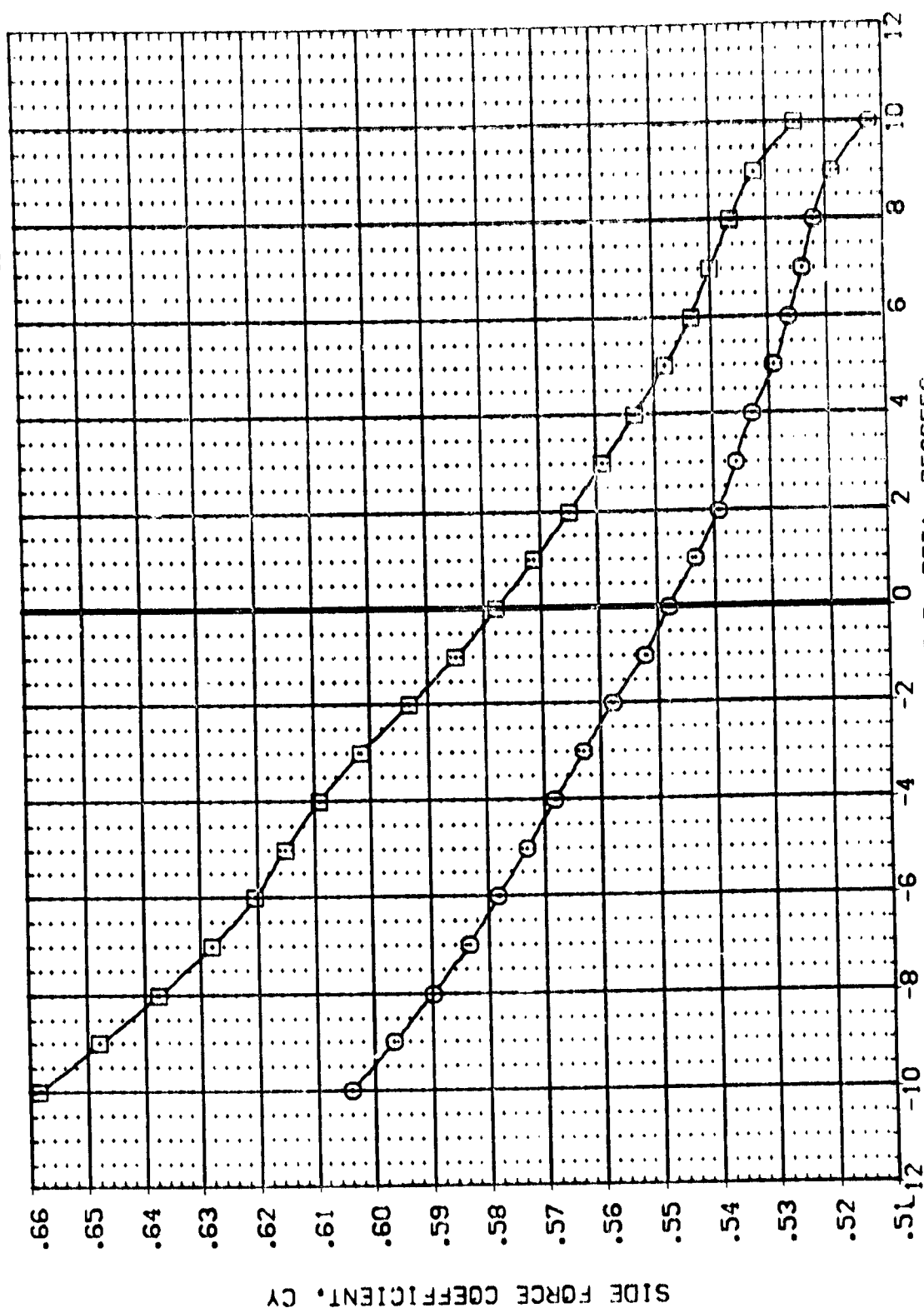
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=1500)

[A]MACH = 4.50

DATA SET SYMBOL: [Symbol]
 CONFIGURATION DESCRIPTION:
 AEDC VA-422(IA-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(IA-57), ORB/ET V/BOTH SRB

SRB POS: .300
 3.300
 RV/L: 1.760
 1.500.000
 PT-JET: 1.500.000
 ALPHA: .000
 .000

REFERENCE INFORMATION:
 SREF: 1690.0000
 LREF: 1290.3000
 BREF: 1290.3000
 VREF: 1157.0000
 ZREF: 400.0000
 SCALE: .0100

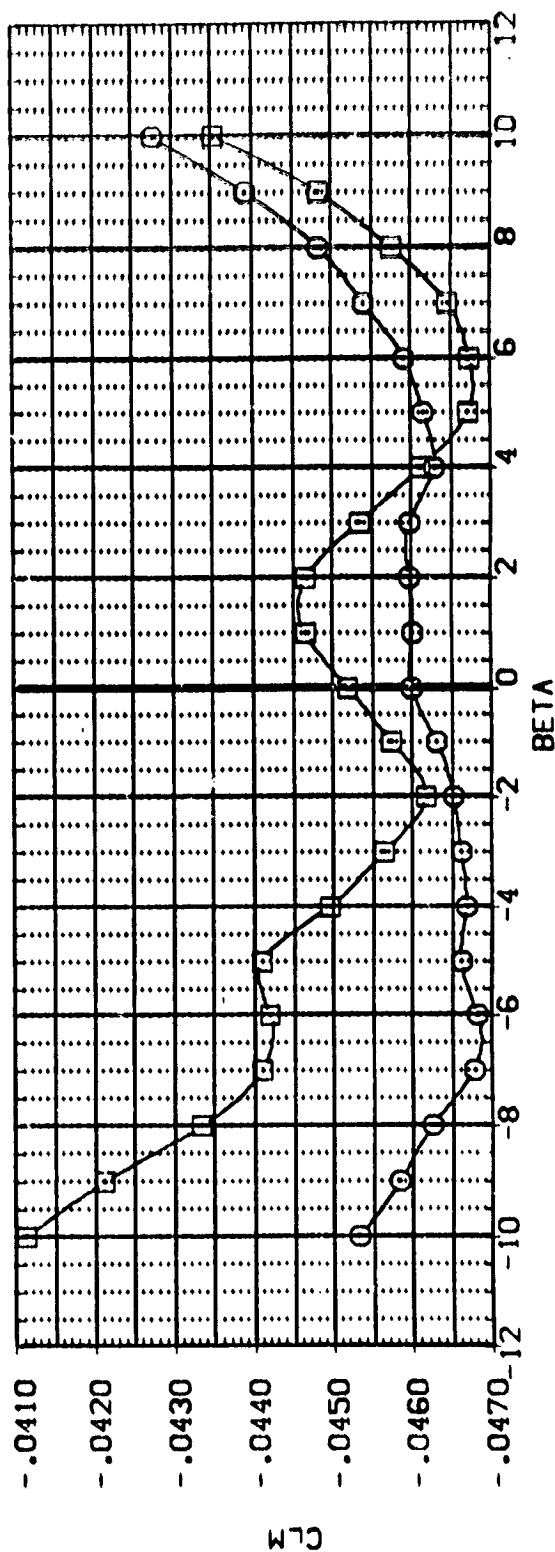
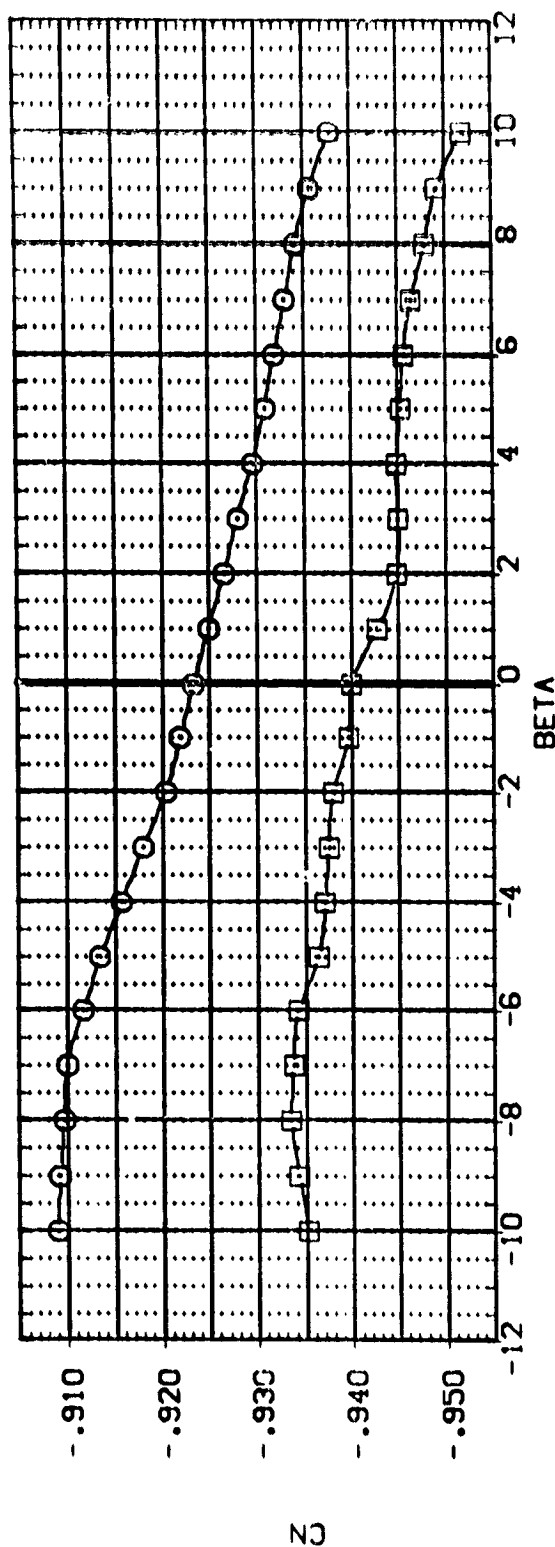


EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=1500)

(A) MACH = 4.50

DATA SET SYMBOL: [STL030] [STL061] CONFIGURATION DESCRIPTION: AEDC VA-422(A-57), ORB/ET W/RIGHT SRB; AEDC VA-422(A-57), ORB/ET W/BOTH SRB

SRB POS: .300 3.300 PT-JET: 1.760 1500.000 1.760 1500.000 ALPHA: .000 .000 REFERENCE INFORMATION: SREF: 2650.0000 50. FT.; LREF: 1250.3000 IN.; BREF: 1250.3000 IN.; XREF: 1157.0000 IN.; YREF: 400.0000 IN.; ZREF: 400.0000 IN.; SCALE: .0100



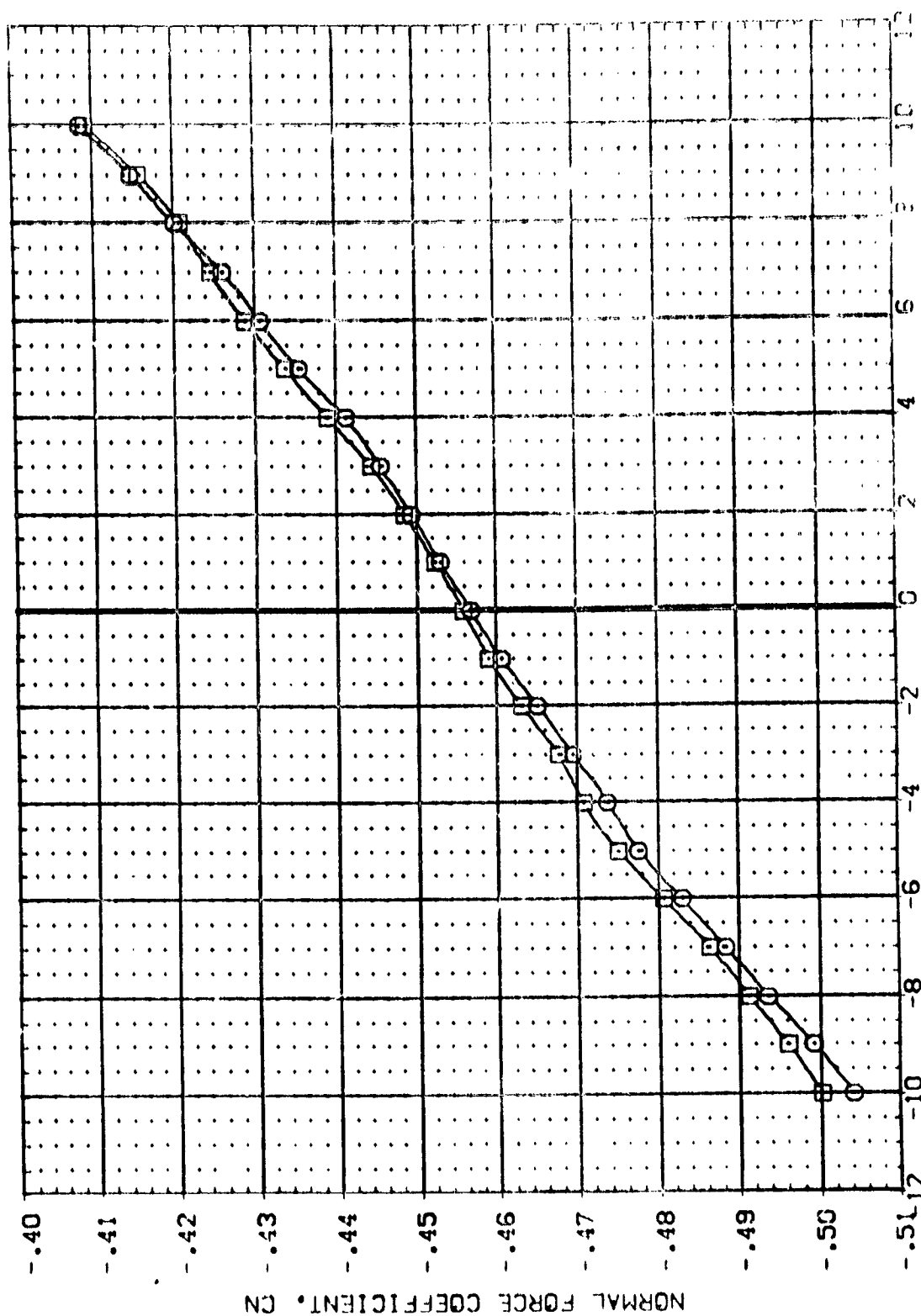
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=1500)

[A] MACH = 4.50

DATA SET SYMBOL: [SYMBOL] CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-571): ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-571): ORB/ET V/BOTH SRB

SRB POS: 1.100 PT-JET: 750.000 BETA: .000
 RN-L: 1.720 1.760 750.000

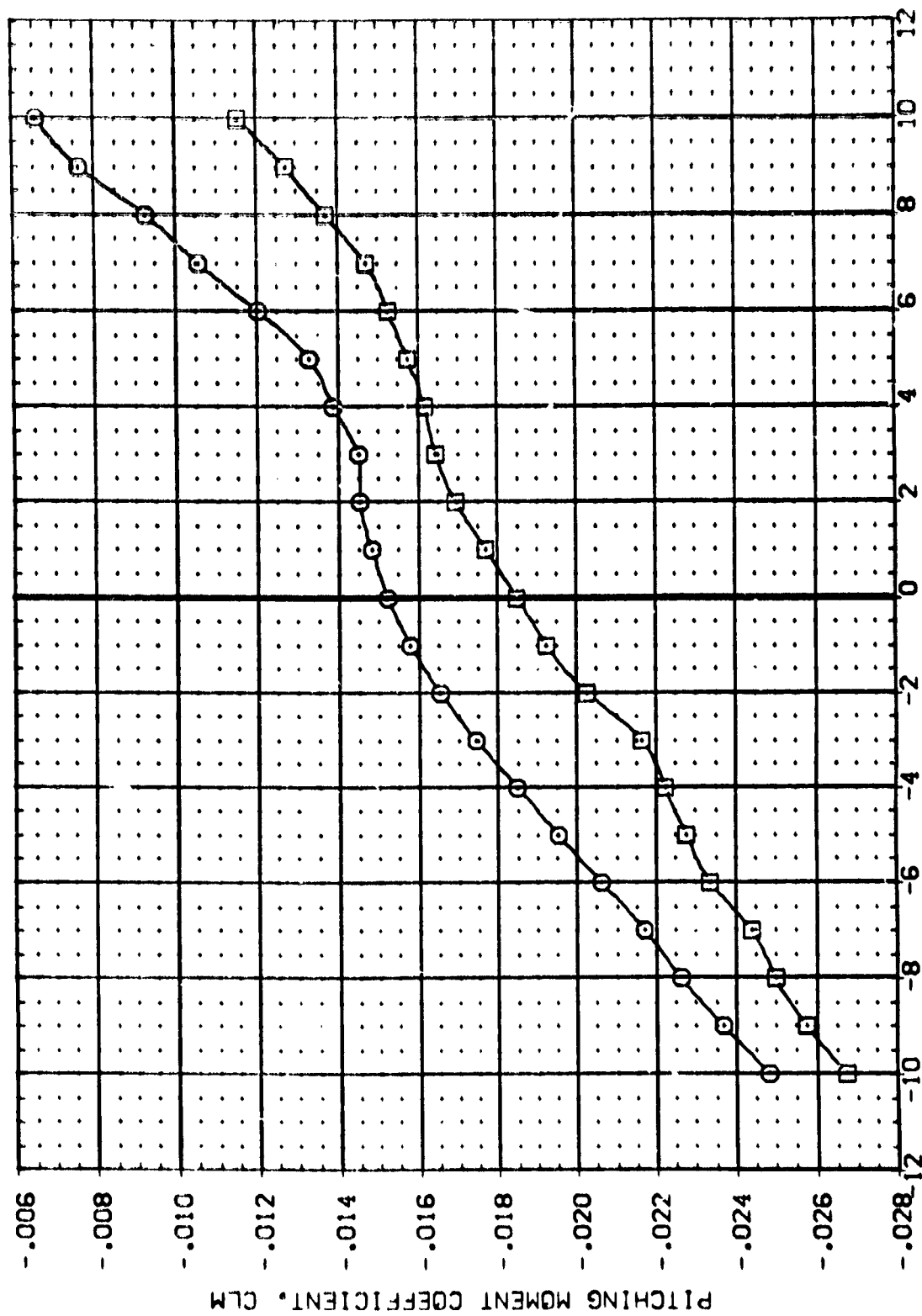
REFERENCE INFORMATION:
 SRB: 2500.0000
 LINE: 150.0000
 BREF: 150.0000
 VREF: 1167.0000
 VREF: 1000.0000
 VREF: 1000.0000
 SCALE: 1000.0000



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=750)

(A) MACH = 4.50

SRRPOS	RN/L	PT-JET	BETA	REFERENCE INFORMATION	SR.FT.
.100	1.760	750.000	.000	GREF	750.000
1.100	1.760	750.000	.000	LREF	1290.000
				EPRF	1290.000
				XPR	1115.000
				YPR	1180.000
				ZPR	100.000
				SCALE	1.000

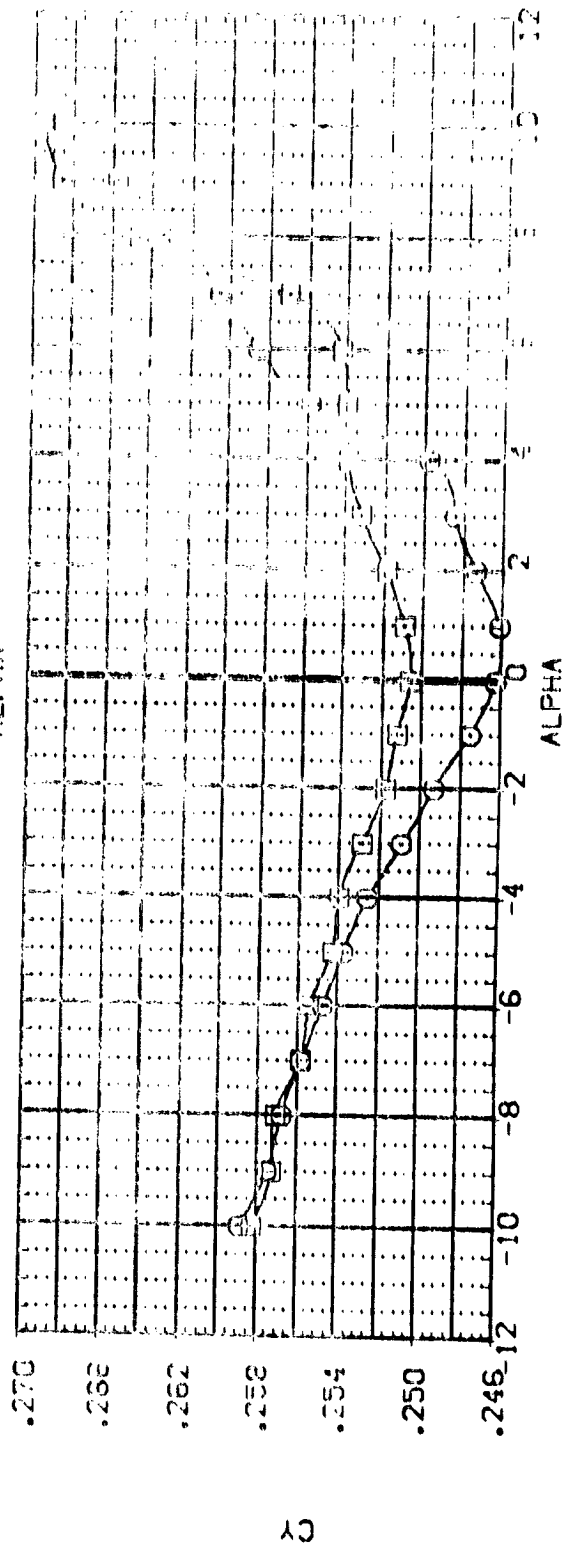
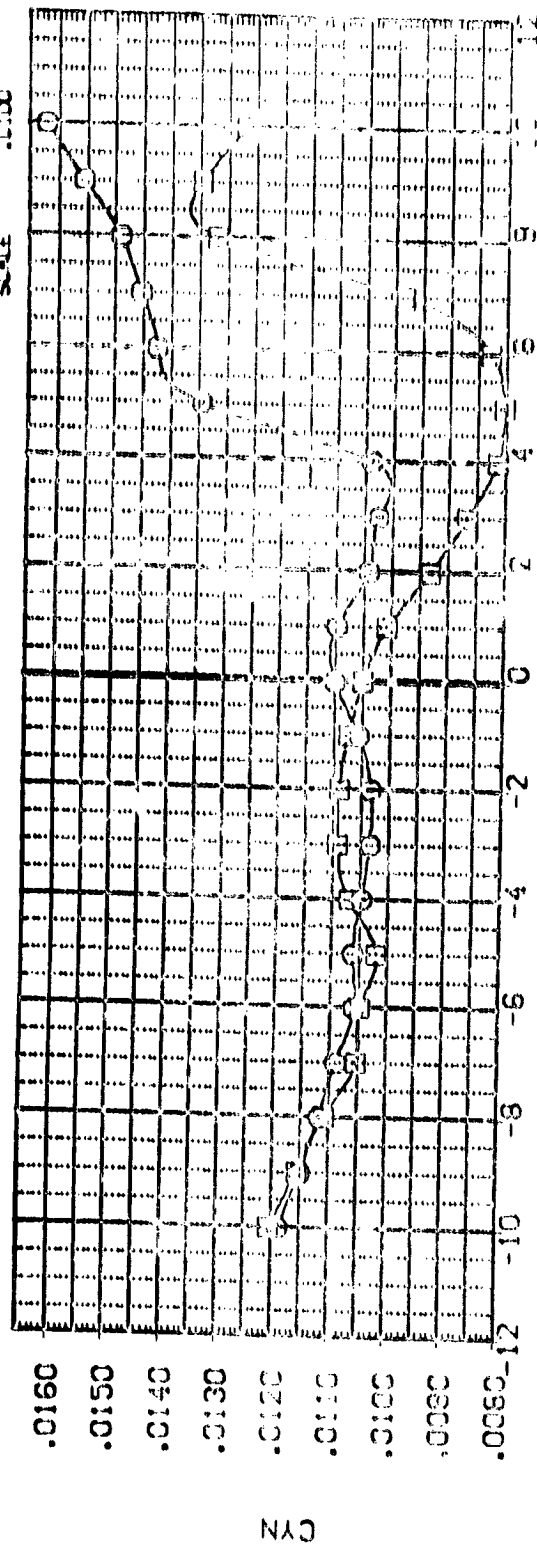


ANGLE OF ATTACK, ALPHA, DEGREES

[A]MACH = 4.50

DATA SET SYMBOL: AEDC VA-422(A-57). ORB/ET V/RIGHT SRB
 (ST-011) AEDC VA-422(A-57). ORB/ET V/BOTH SRB
 (ST-036)

SRB POS: 1.00 1.750 750.000
 RVL: 1.750 750.000
 PT-DET: 1.000
 BETA: 1.000
 REFERENCE IN SRB: 1.000 1.750 750.000
 SCALE: 1.000 1.750 750.000
 XS: 1.000 1.750 750.000
 YS: 1.000 1.750 750.000
 ZS: 1.000 1.750 750.000

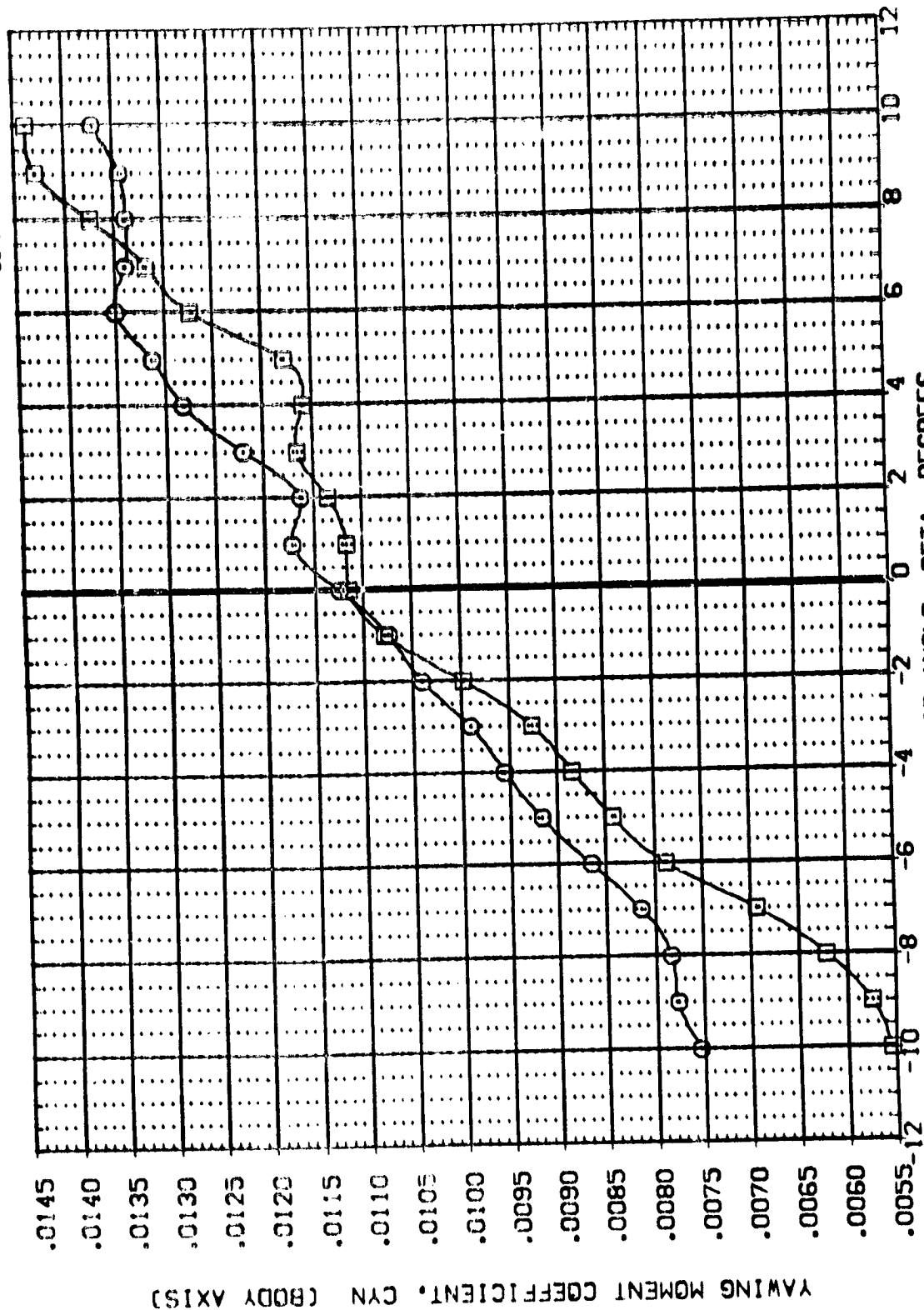


EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1.750, 750.000)

(A)MACH = 4.50

DATA SET SYMBOL: [S1012] [S1037] CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB; AEDC VA-422(1A-57), ORB/ET V/LEFT SRB

SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
.100	1.760	750.000	.000	SREF 2500.000
1.100	1.760	750.000	.000	LBRE 1500.000
				REF 1500.000
				115.000
				400.000
				SCALE .0100



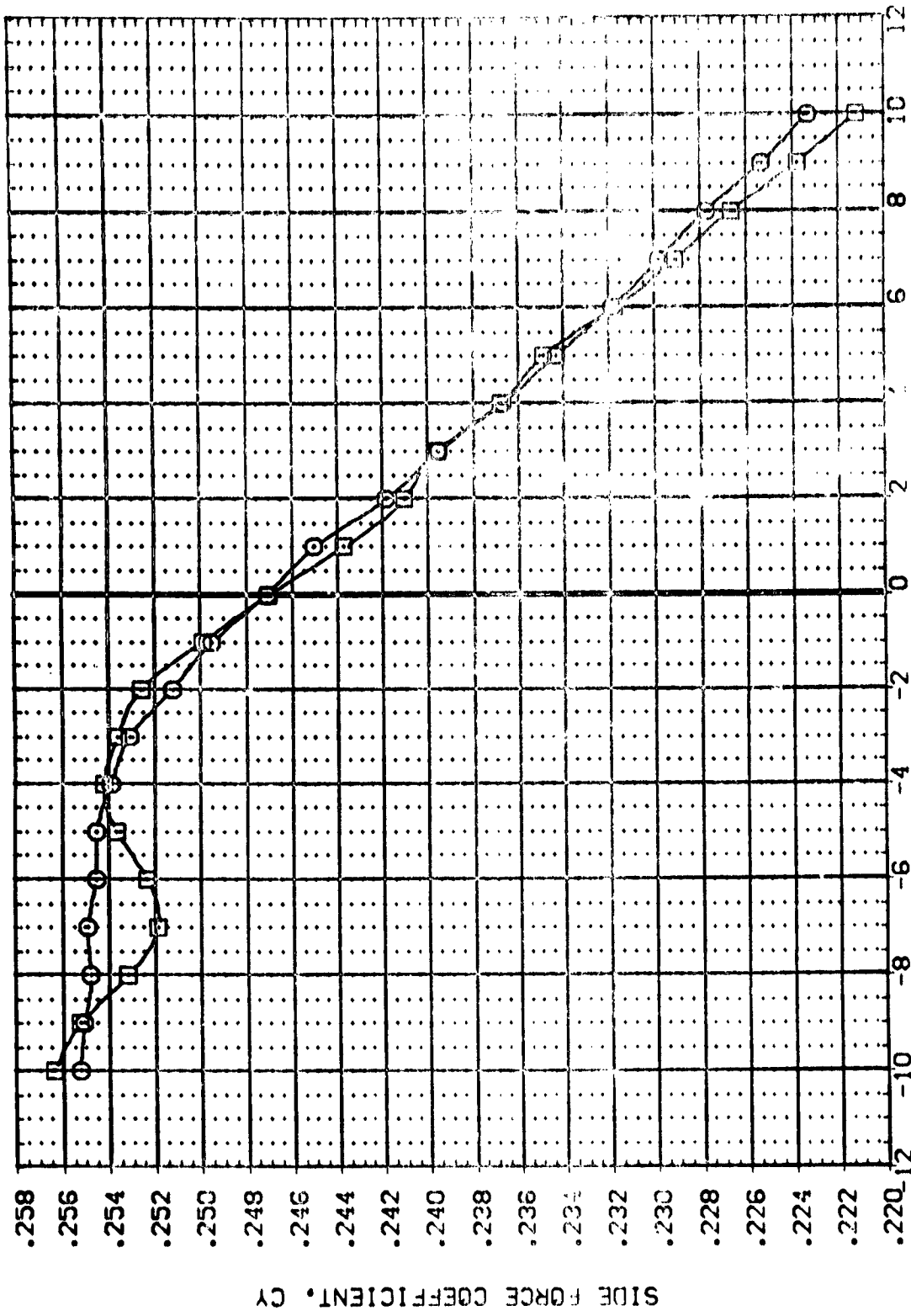
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL: AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (STL012) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB
 (STL037)

SRB POS RV/L PT-JET ALPHA
 .100 1.760 750.000 .000
 1.100 1.760 750.000 .000

REFERENCE INFORMATION:
 SRREF 2650.0000 50.00
 LREF 1750.3000 IN.
 BRREF 1750.3000 IN.
 XREF 1167.0000 IN.
 YREF 400.0000 IN.
 ZREF 400.0000 IN.
 SCALE .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=750)

(A)MACH = 4.50

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Q [STLO12] AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
Q [STLO37] AEDC VA-422(1A-57). ORB/ET V/BOTH SRB

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AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

Subjects

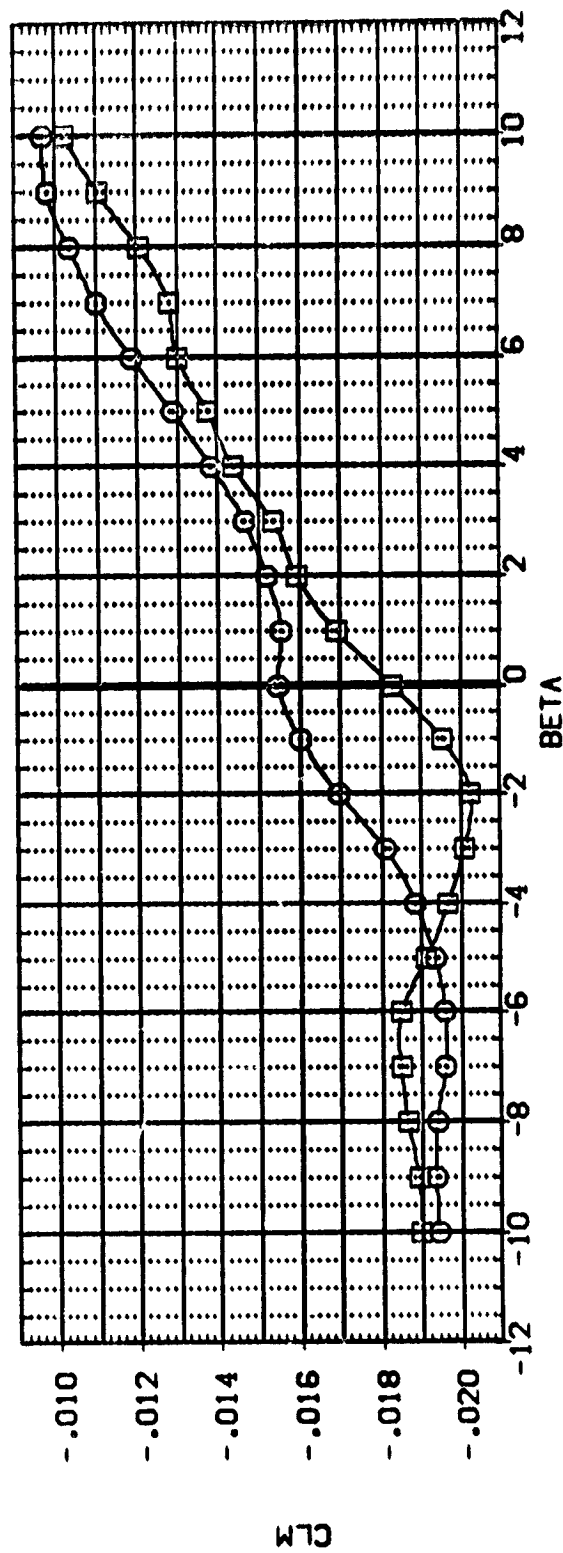
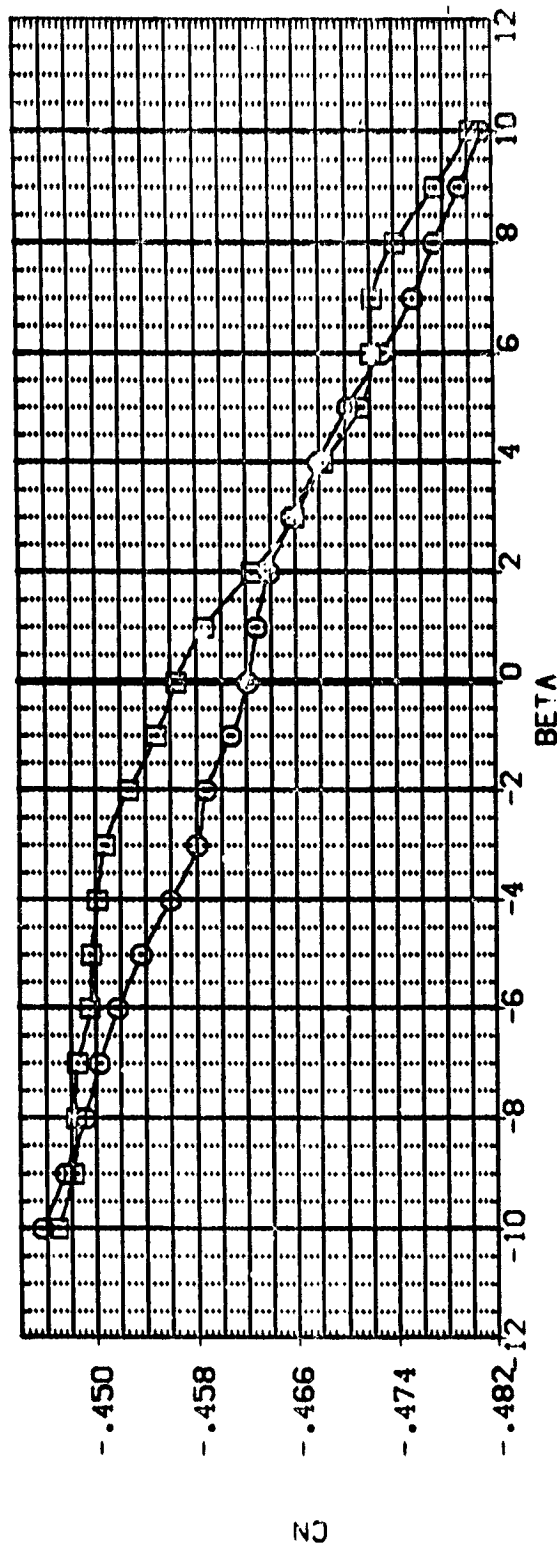
1.100	1.760	750.000
1.100	1.760	750.000

ALPHA

88

REFERENCE INFORMATION

	50 ft.	YS
SRF	7690.0000	IN.
BRF	1290.3000	IN.
YRP	1167.0000	IN.
ZRP	403.0000	IN.
SCALE	.0100	IN.

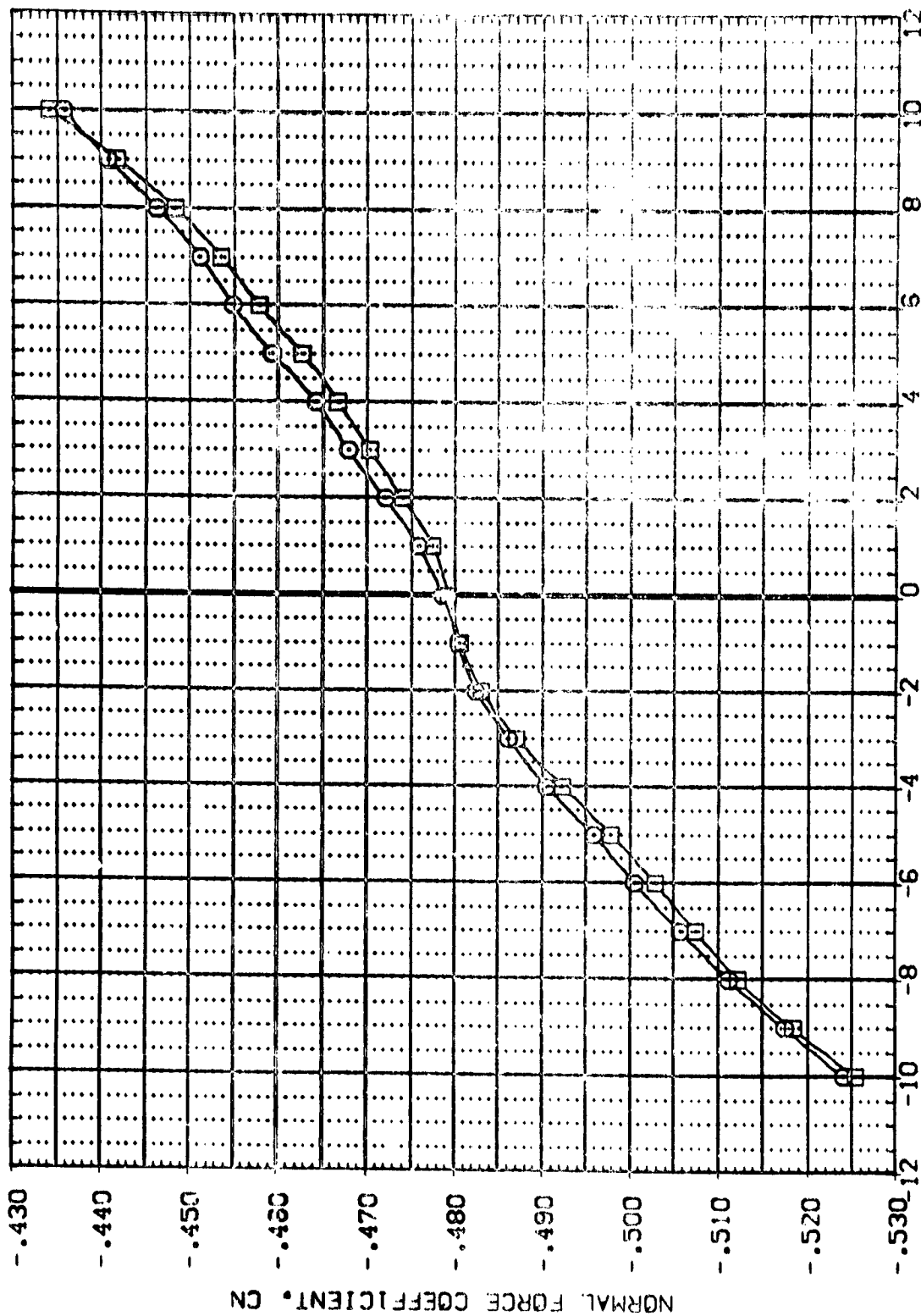


EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 1, PT-JET=750)

$$[A]_{MACH} = 4.50$$

PAGE 297

SRPOS	RM/L	PT-JET	BETA	REFERENCE INFORMATION
.200	1.750	750.000	.000	SREF 2690.0000 IN. 51.
2.200	1.760	750.000	.000	LREF 1290.3000 IN. 52.
				BREF 1290.3000 IN. 53.
				XREF 1167.0000 IN. 55.
				TRFP .0000 IN. 55.
				ZREF 400.0000 IN. 55.
				SCALE .0100 IN. 55.



ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=750)

$$[A]_{\text{MACH}} = 4.50$$

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DATA SET SYMBOL: (S'LO19) (S'LO47)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRB POS: .200 2.200

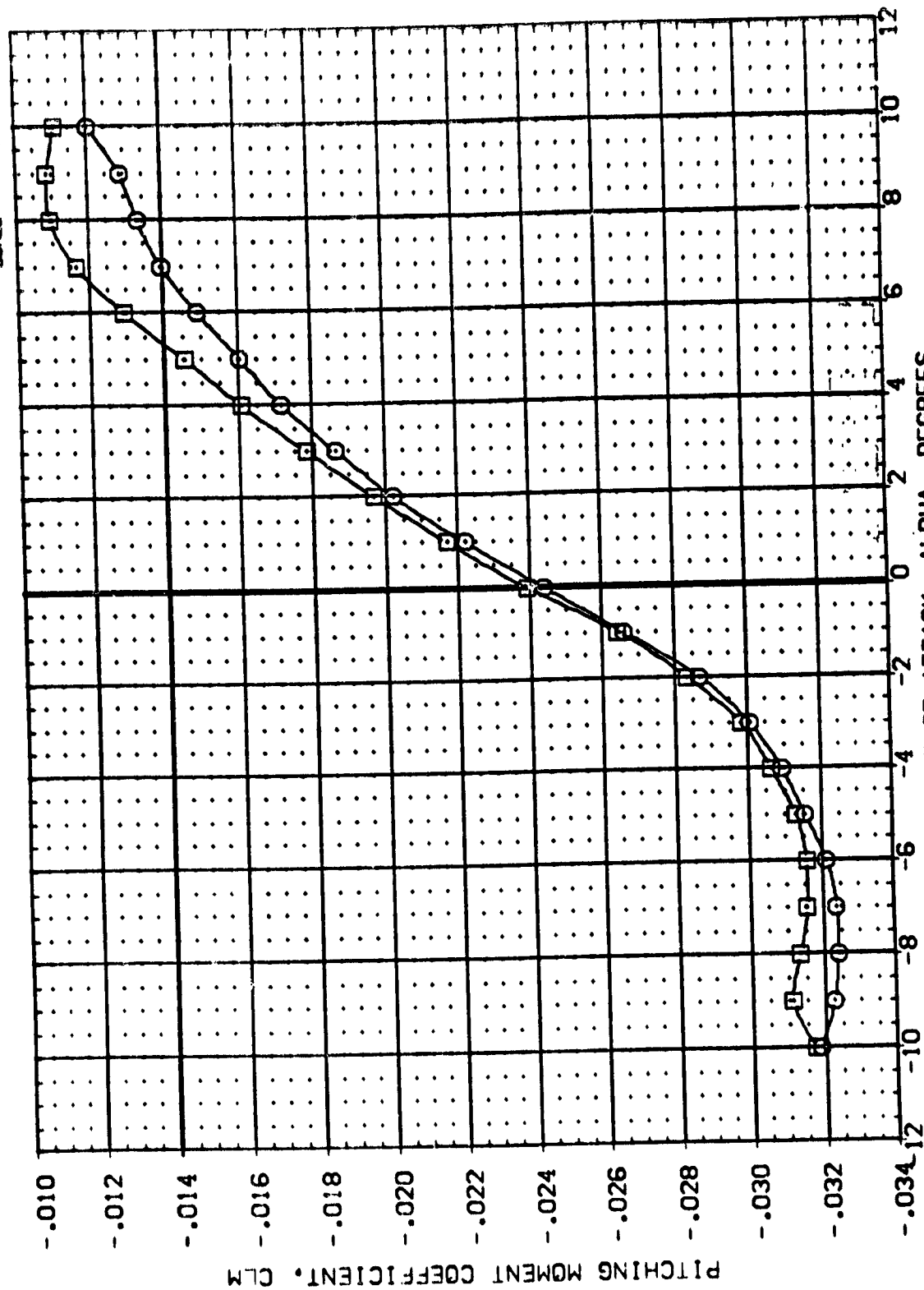
RV/L: 1.760 1.760

PT-JET: 750.000 750.000

BETA: .000 .000

REFERENCE INFORMATION:

	SO.FT.
SREF	2690.0000
LREF	1290.0000
BREF	1290.0000
XPRP	1167.0000
YPRP	.0000
ZPRP	400.0000
SCALE	.0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=750)

(A)MACH = 4.50

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SR905	RV/L	PT-JET	BETA	REFERENCE	INFORMATION
200	1.760	750.000	.000	SREF	2650.0000 IN.
2.200	1.760	750.000	.000	LREF	1250.3000 IN.
				BREF	1250.3000 IN.
				YREF	1167.0000 IN.
				ZREF	100.0000 IN.
				SCALE	.0100

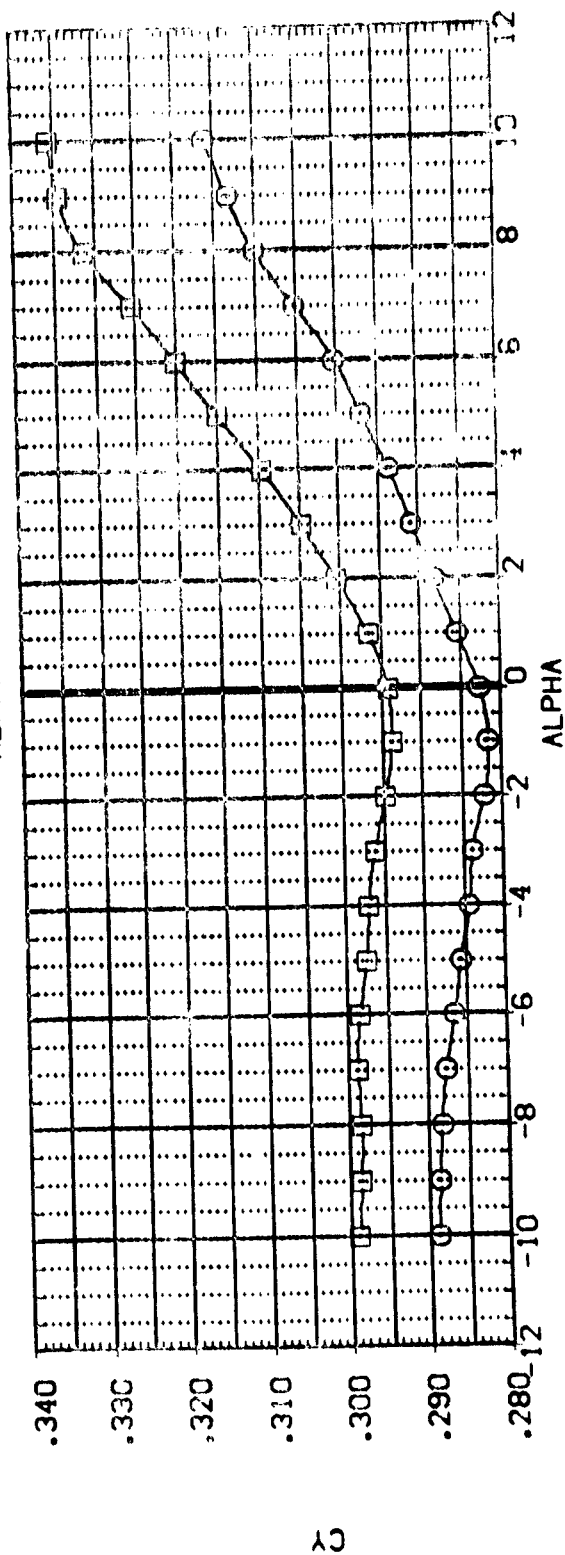
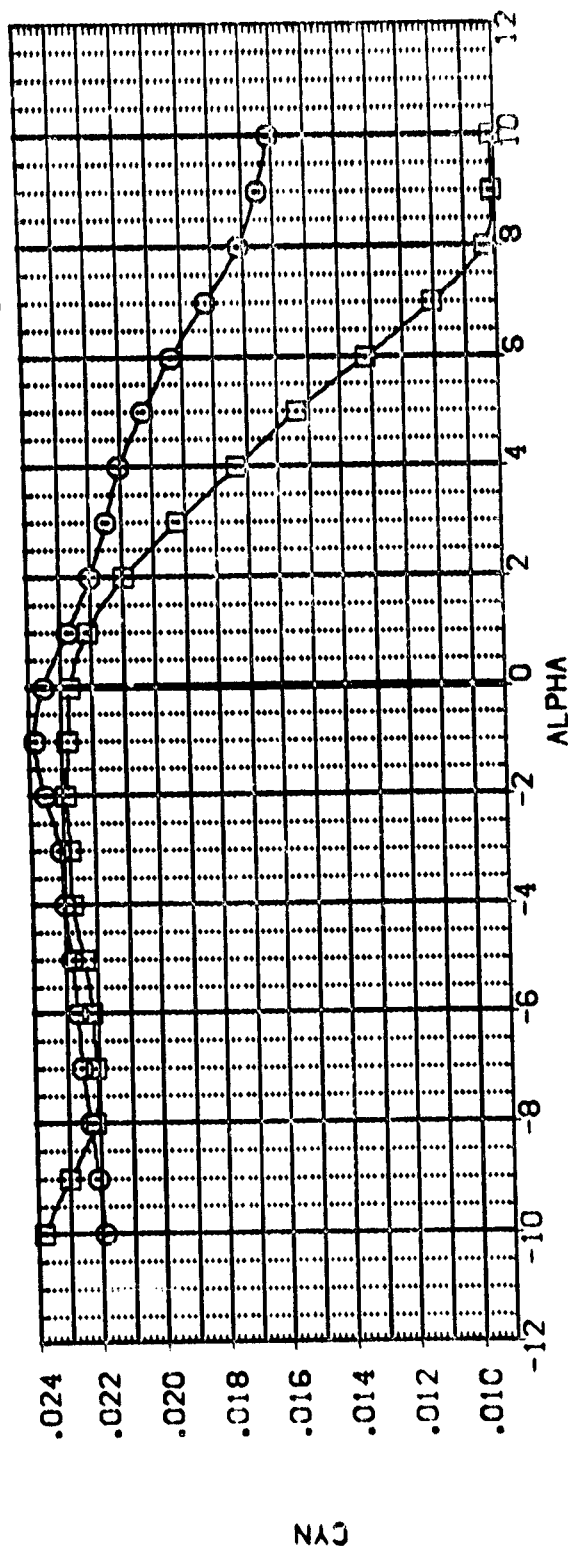
REFERENCE

33

REV/L	PT-JET
1.760	750.000
1.760	750.000

2.200
2.200

CONFIGURATION	DESCRIPTION
AEDC VA-422(1A-57):	ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57):	ORB/ET V/BOTH SRB

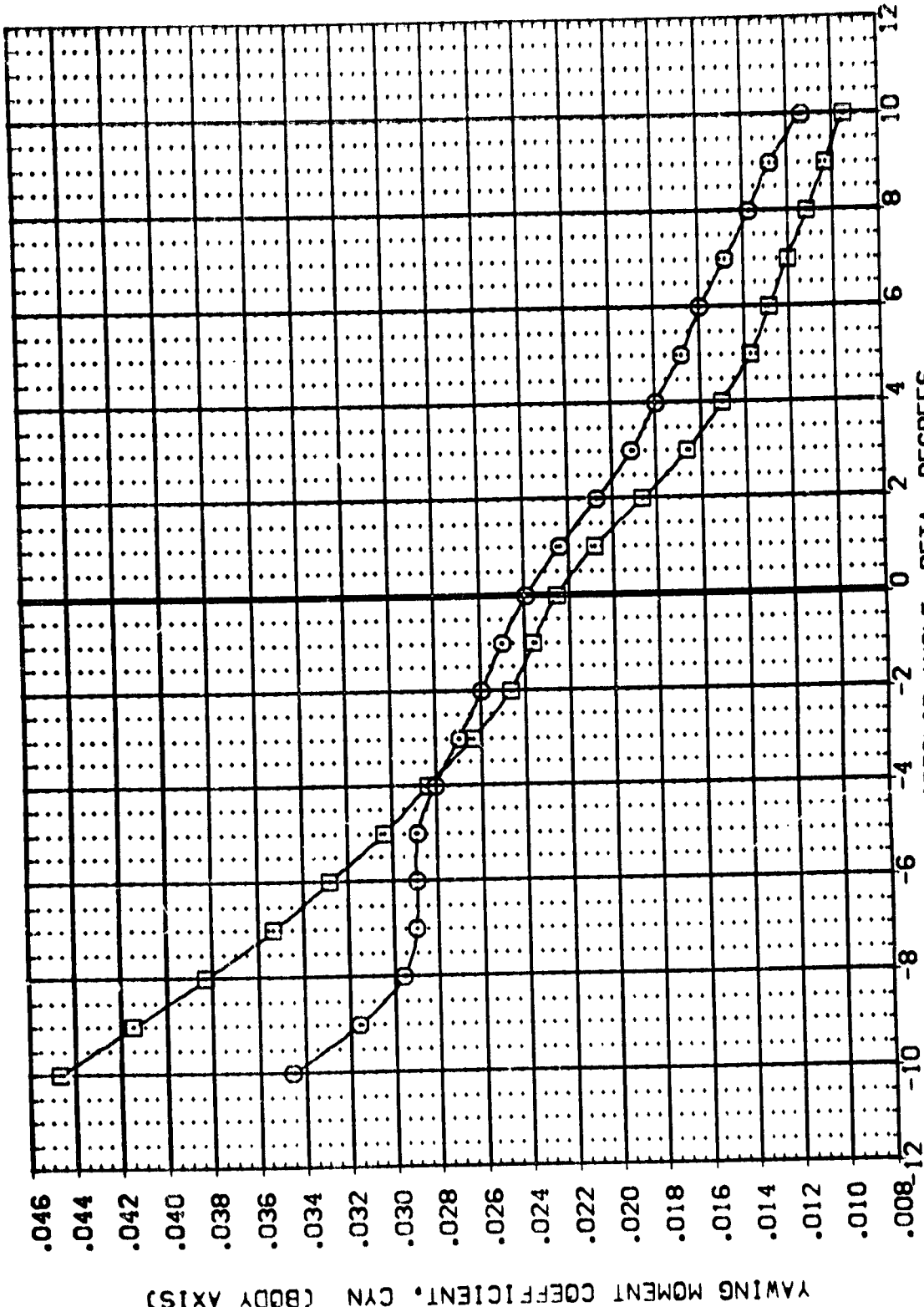
CONFIGURATION DESCRIPTION

EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=750)

$$[A]_{\text{MACH}} = 4.50$$

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L	PT-JET	ALPHA	REFERENCE INFORMATION	
[SYL020]	[SYL048]	AEDC VA-422(1A-57)	ORB/ET V/RIGHT SRB	.200	1.760	750.000	.000	SREF	7690.0000	50. FT.
		AEDC VA-422(1A-57)	ORB/ET V/BOTH SRB	2.200	1.760	750.000	.000	LREF	1290.3000	IN.
								BREF	1290.3000	IN.
								XMRP	1167.0000	IN.
								YMRP	400.0000	IN.
								ZMRP	400.0000	IN.
								SCALE	.0100	IN.



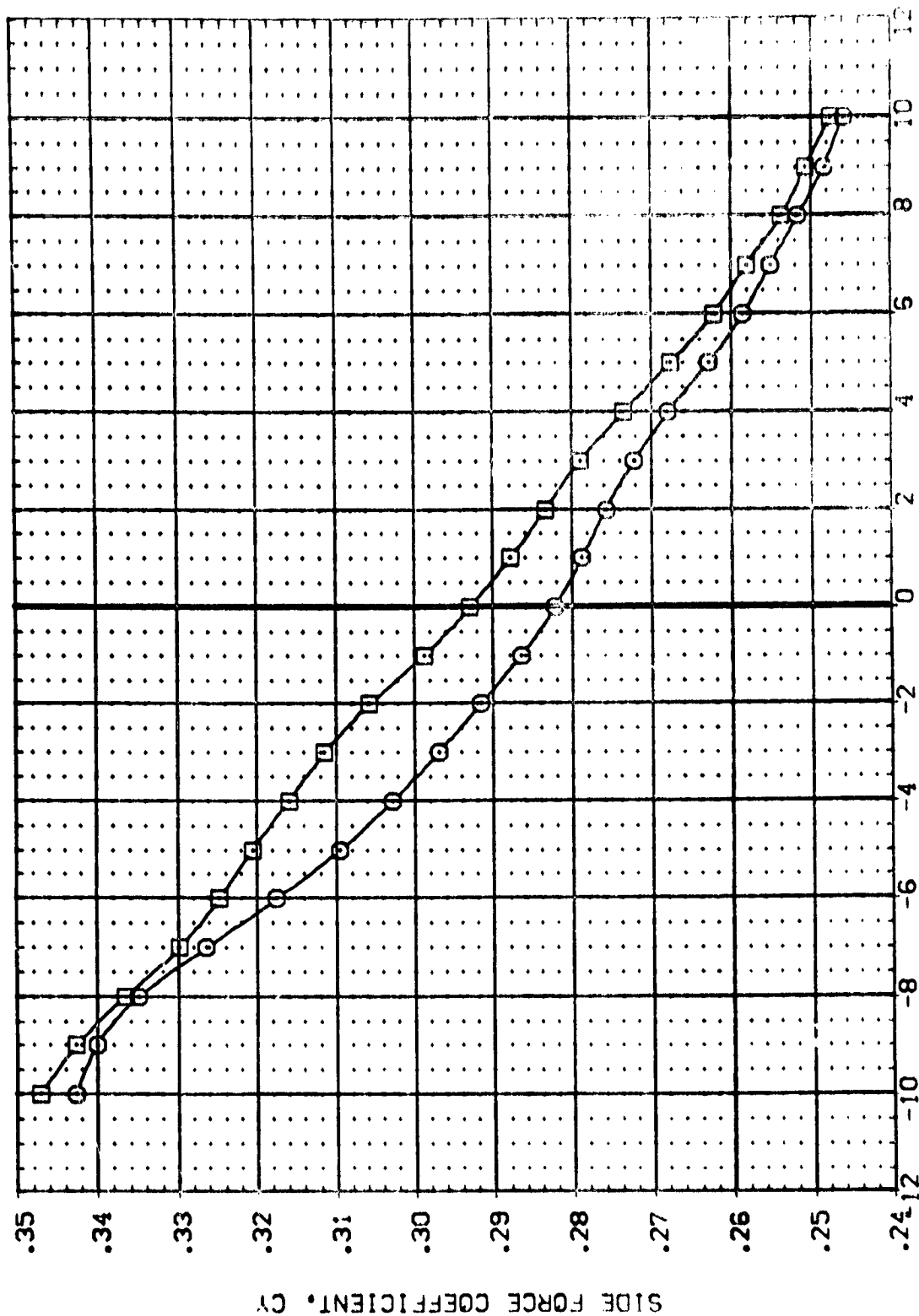
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=750)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[STL020] AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
 [STL048] AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA
 .200 1.760 750.000 .000
 2.200 1.760 750.000 .000

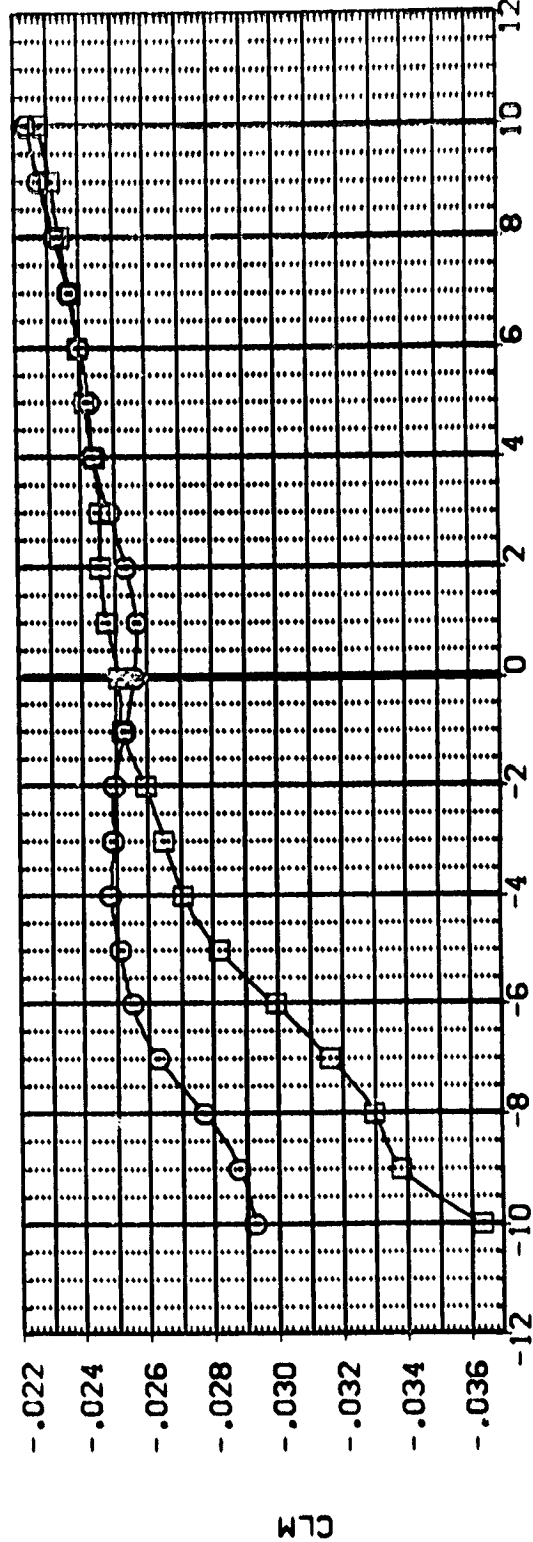
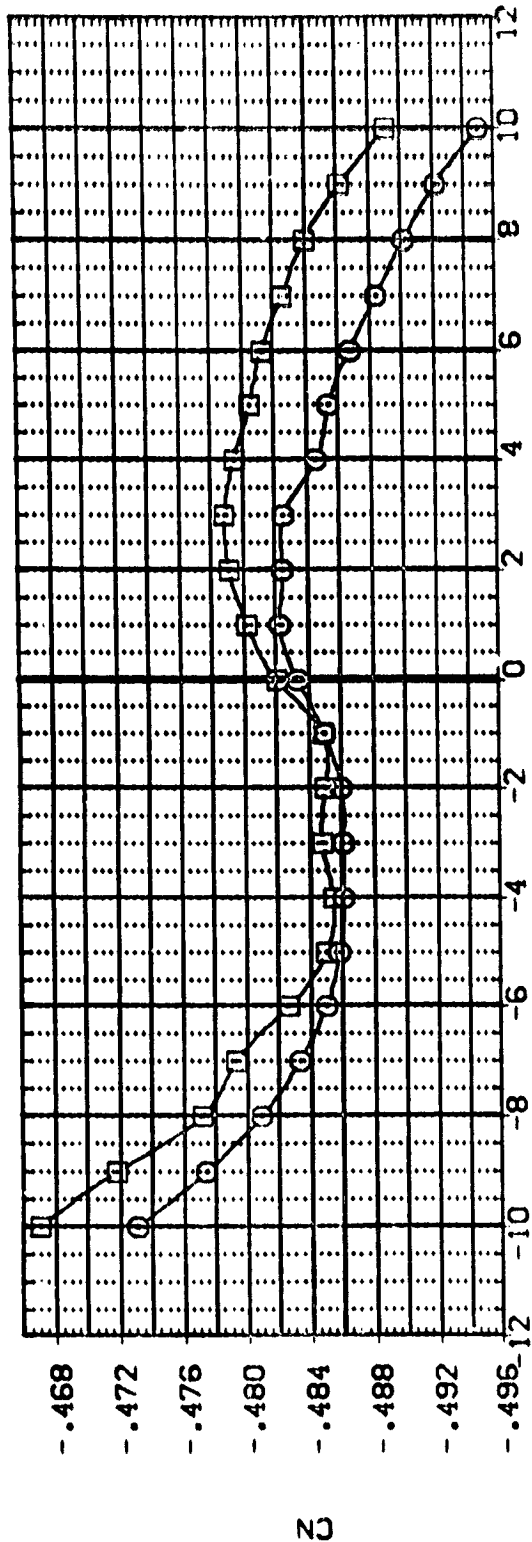
REFERENCE INFORMATION
 SRREF 2690.0000 50. FT.
 LRREF 1290.3000 IN.
 BRREF 1290.3000 IN.
 YMRP 1167.0000 IN. X5
 ZMRP 400.0000 IN. X5
 SCALE .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2, PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
(STLO20)	Q	AEDC VA-422(1A-57)	OR8/ET V/RIGHT SRB	200	1.760	750.000	.000					SREF	2690.0000
(STLO48)	Q	AEDC VA-422(1A-57)	OR8/ET V/BOTH SRB	2.200	1.760	750.000	.000					LREF	1290.3000
												BREF	1290.3000
												XREF	1167.0000
												YREF	.0000
												ZREF	400.0000
												SCALE	.0100

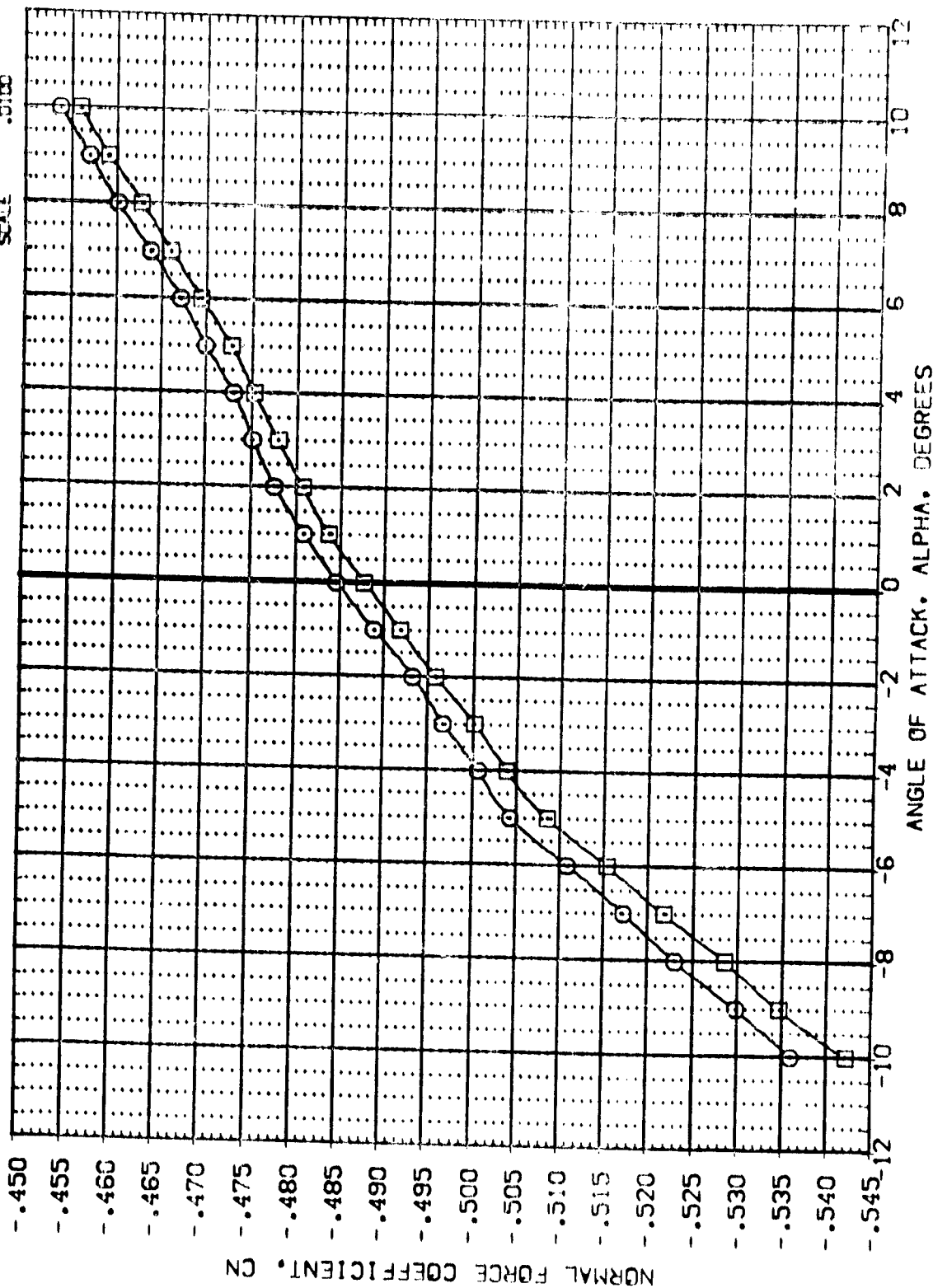


EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 2. PT-JET=750)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (ST-027) AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (ST-058) AEDC VA-422(1A-57); ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET BETA REFERENCE INFORMATION
 300 1.760 750.000 .000 SRB 250.0000 SQ.FT.
 3.300 1.760 750.000 .000 LREF 1250.3000 IN.
 BREF 1157.0000 IN. X
 YREF 400.0000 IN. Y
 ZREF 0.0100 IN. Z
 SCALE



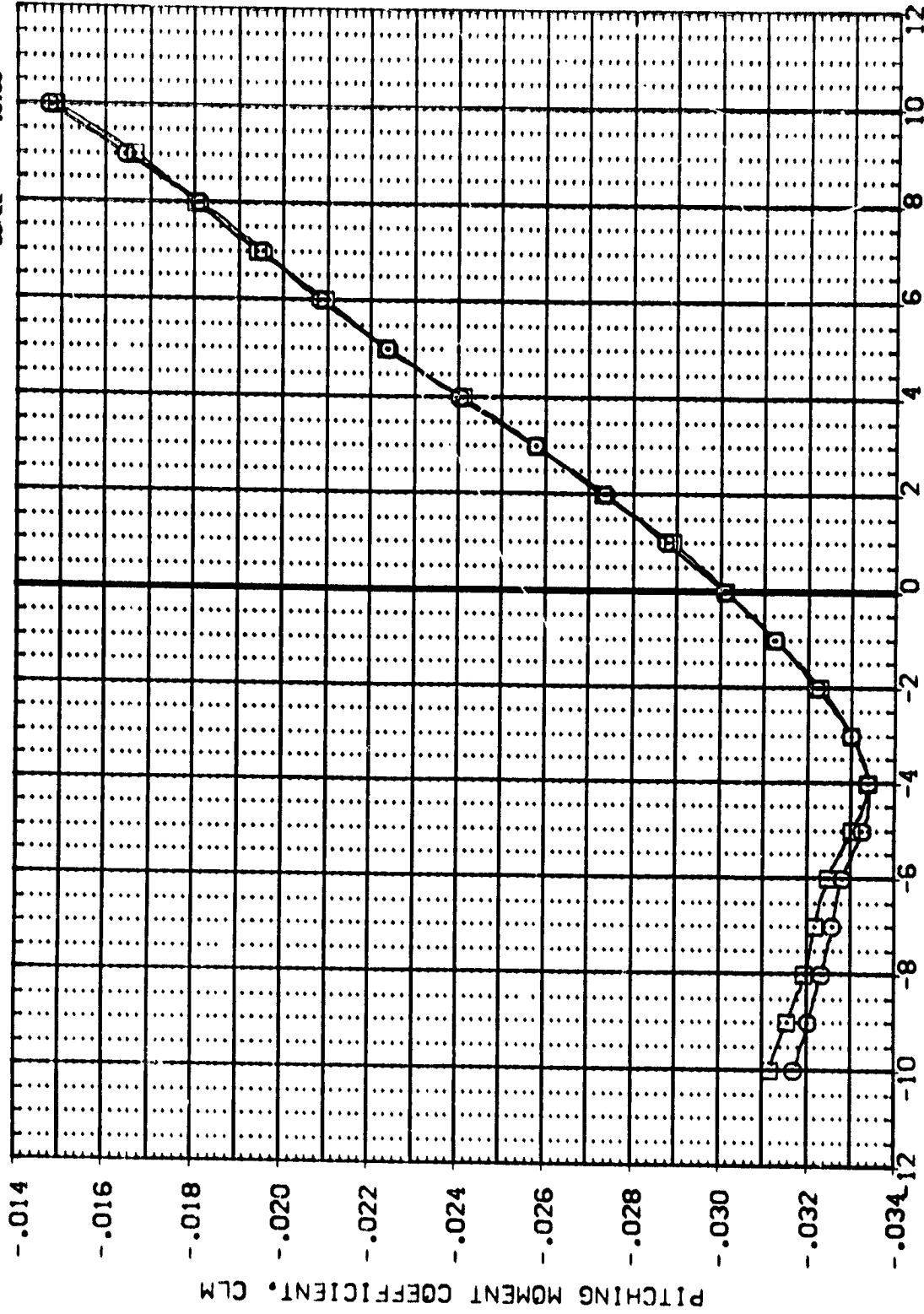
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=50)

(M)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (S)0271 AEDC VA-422(A-57): ORB/ET V/RIGHT SRB
 (S)058 AEDC VA-422(A-57): ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET BETA
 -300 1.760 750.000 .000
 3.300 1.760 750.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 1290.3000 IN.
 BREF 1290.3000 IN.
 XREF 1167.0000 IN.
 YREF 400.0000 IN.
 ZREF 400.0000 IN.
 SCALE .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=750)

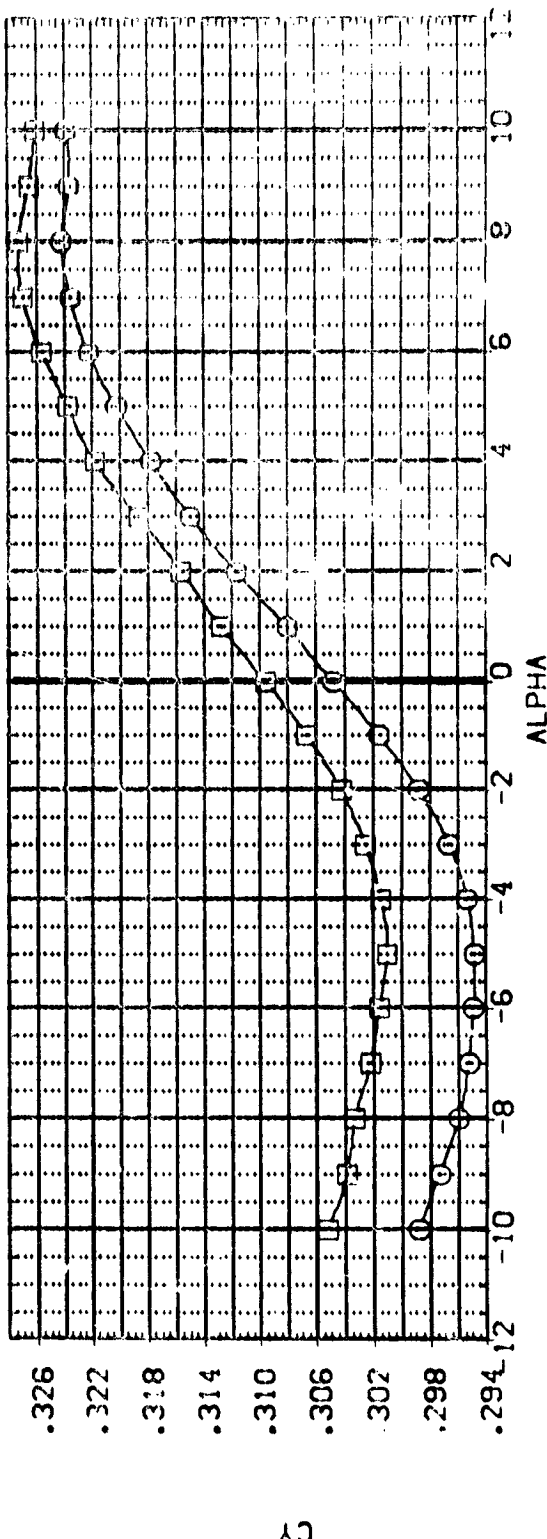
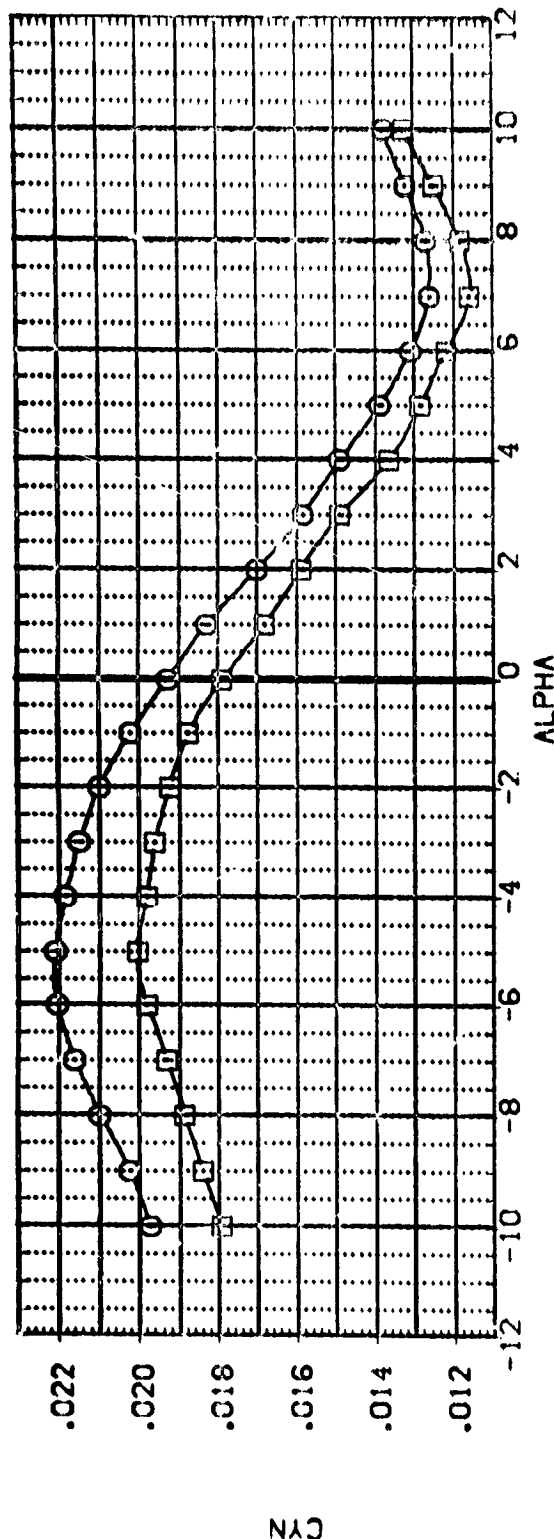
(A)MACH = 4.50

DATA SET SYMBOL: (S1,027) 8
 (S1,058) 8

CONFIGURATION DESCRIPTION:
 AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRB POS: 300, 3.300
 RV/L: 1.760, 1.760
 PT-JET: 750.000, 750.000
 BETA: .000, .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1790.3000
 BREF: 1790.3000
 AREF: 1167.0000
 YARP: .0000
 TARP: 400.0000
 SCALE: .0100



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=50)

CAMACH 4.50

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DATA SET SYMBOL: (STL028) (STL059)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

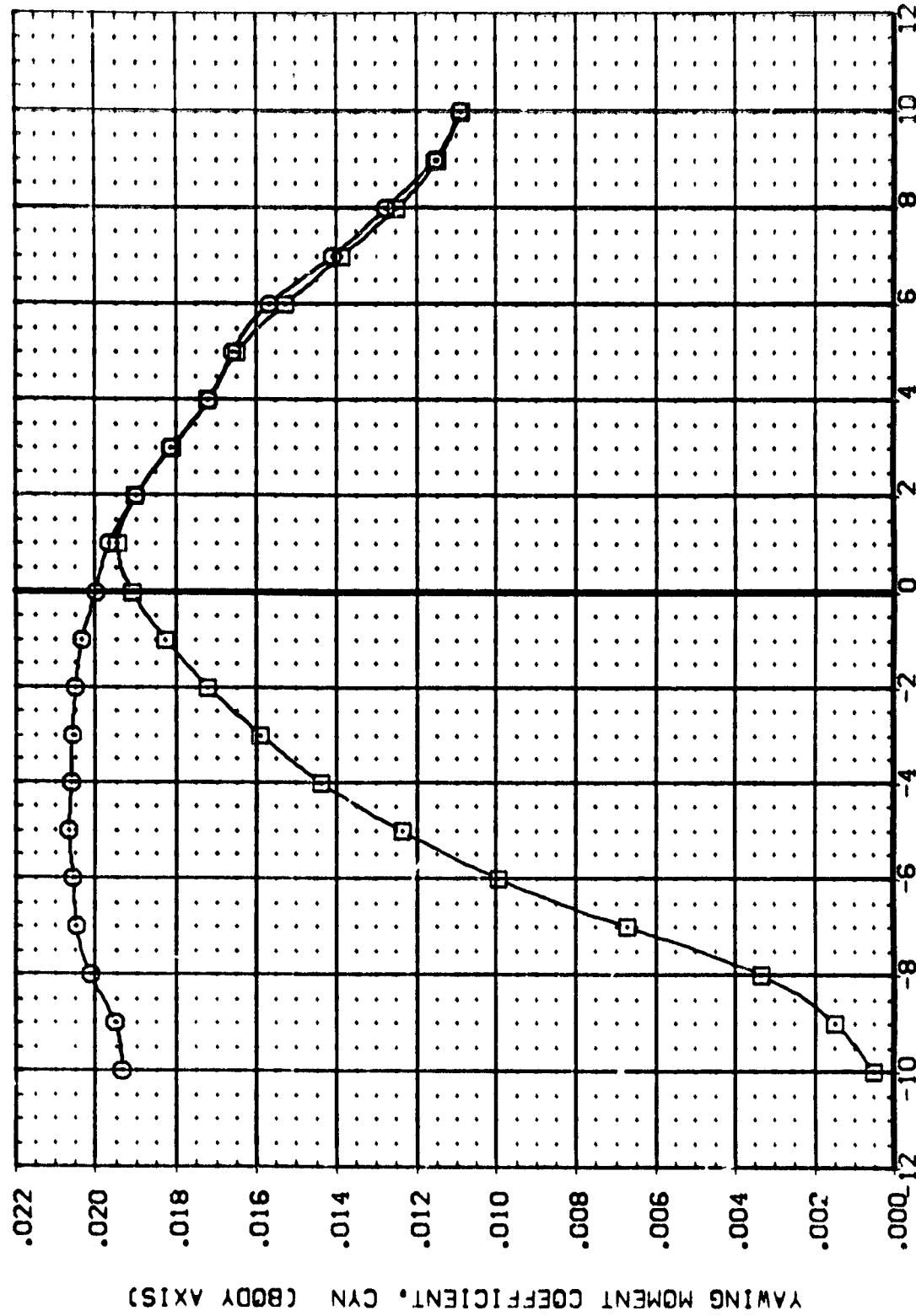
SRB POS: -300 3.300

RVL: 1.760 1.760

PT-JET: 750.000 750.000

ALPHA: .000 .000

REFERENCE INFORMATION: SREF 2650.0000 SD.FT. 1250.3000 LREF 1250.3000 IN. 1250.3000 BREF 116.0000 IN. XS 116.0000 IN. YS 400.0000 IN. ZS 400.0000 IN. SCALE 0.100



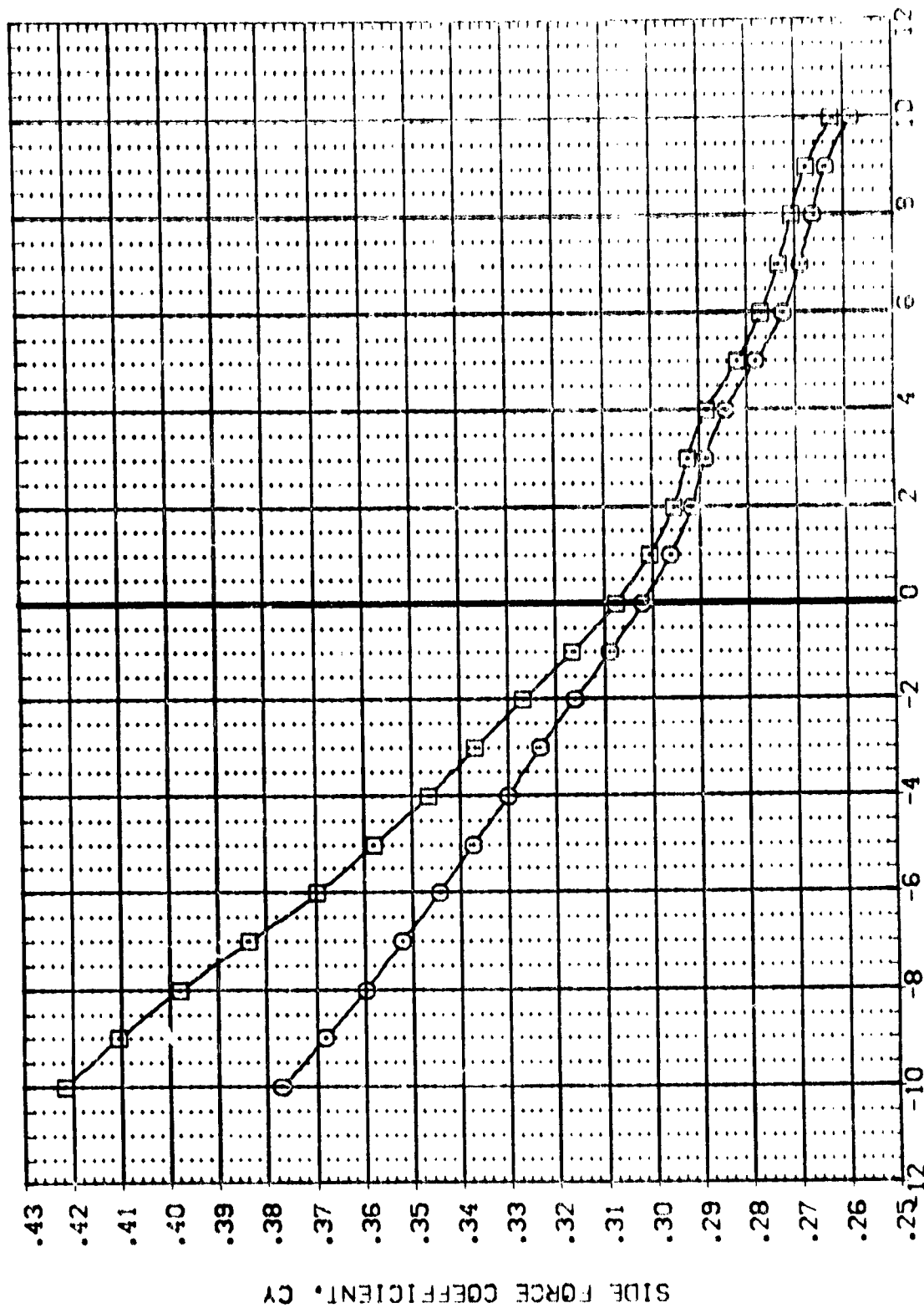
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=750)

(A)MACH - 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STLO28) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 (STLO59) AEDC VA-422(1A-57), ORB/ET V/BOTH SRB

SRRPOS RVL PT-JET ALPHA
 300 1.760 750.000 .000
 3.300 1.760 750.000 .000

REFERENCE INFORMATION
 SREF 250.0000 50.00
 LREF 250.0000 50.00
 BREF 250.0000 50.00
 1.50 1.50
 400.0000 1.50
 SCALE .0100



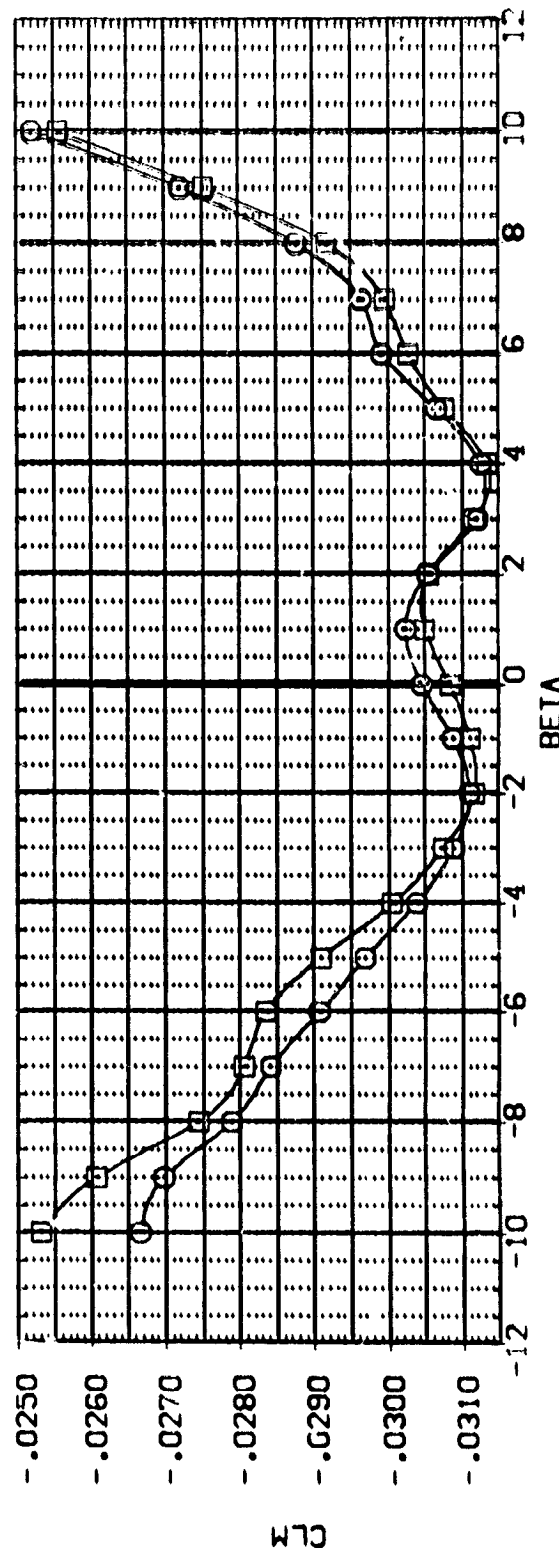
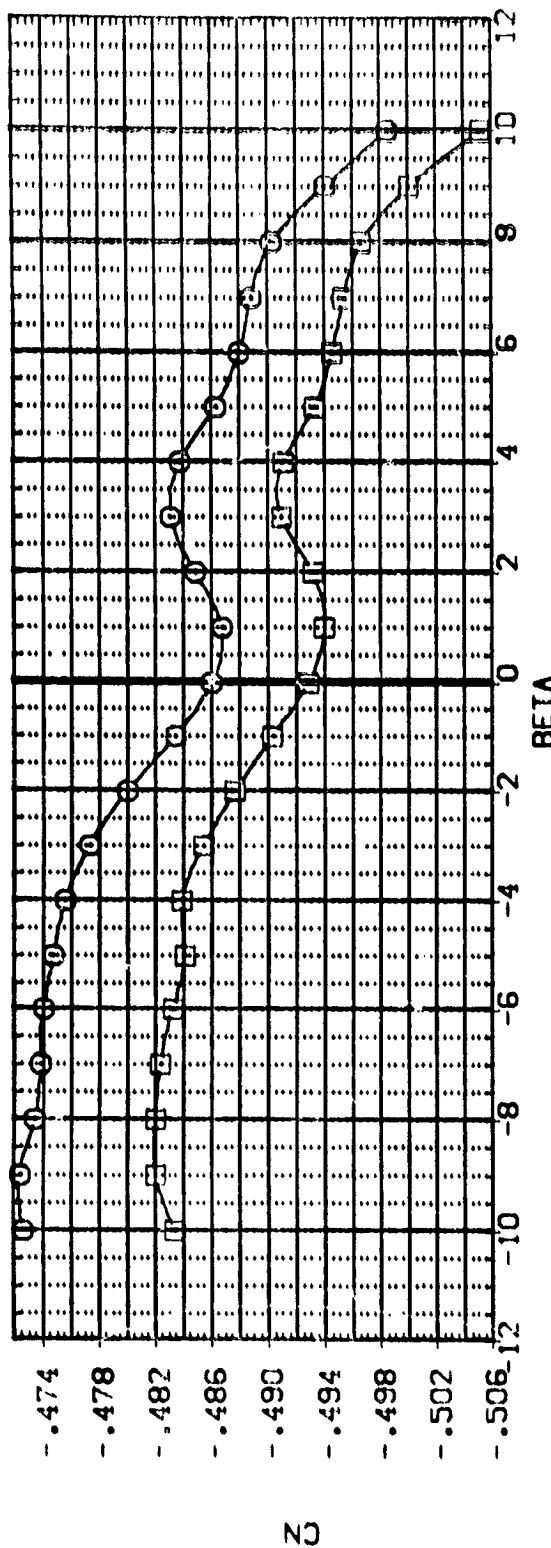
EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=150)

(A) V2C = 1.50

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DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 S-0281 Q AEDC VA-422 (A-571, ORB/ET V/RIGHT SRB)
 S-0559 Q AEDC VA-422 (A-571, ORB/ET V/BOTH SRB)

SRB POS RV/L PT-JET ALPH REFERENCE INFORMATION
 .300 1.760 750.000 .000 SREF 750.0000 50. FT.
 3.300 1.760 750.000 .000 LREF 750.0000 50. FT.
 .000 .000 .000 .000 YREF 750.0000 50. FT.
 .000 .000 .000 .000 ZREF 750.0000 50. FT.
 .000 .000 .000 .000 SCALE 1.0000



EFFECT OF POSITION ON SRB CHARACTERISTICS (POSITION 3, PT-JET=750)

(M)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[STL032] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

[STL036] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

[STL043] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

[STL049] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

[STL054] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

[STL050] AEDC VA-422(IA-57); SRB/ET V/BOTH SRB

SRBP05 RV/L PT-JET BETA REFERENCE INFORMATION

1.100 1.400 1500.000 .000 SREF 1590.0000 IN. XS

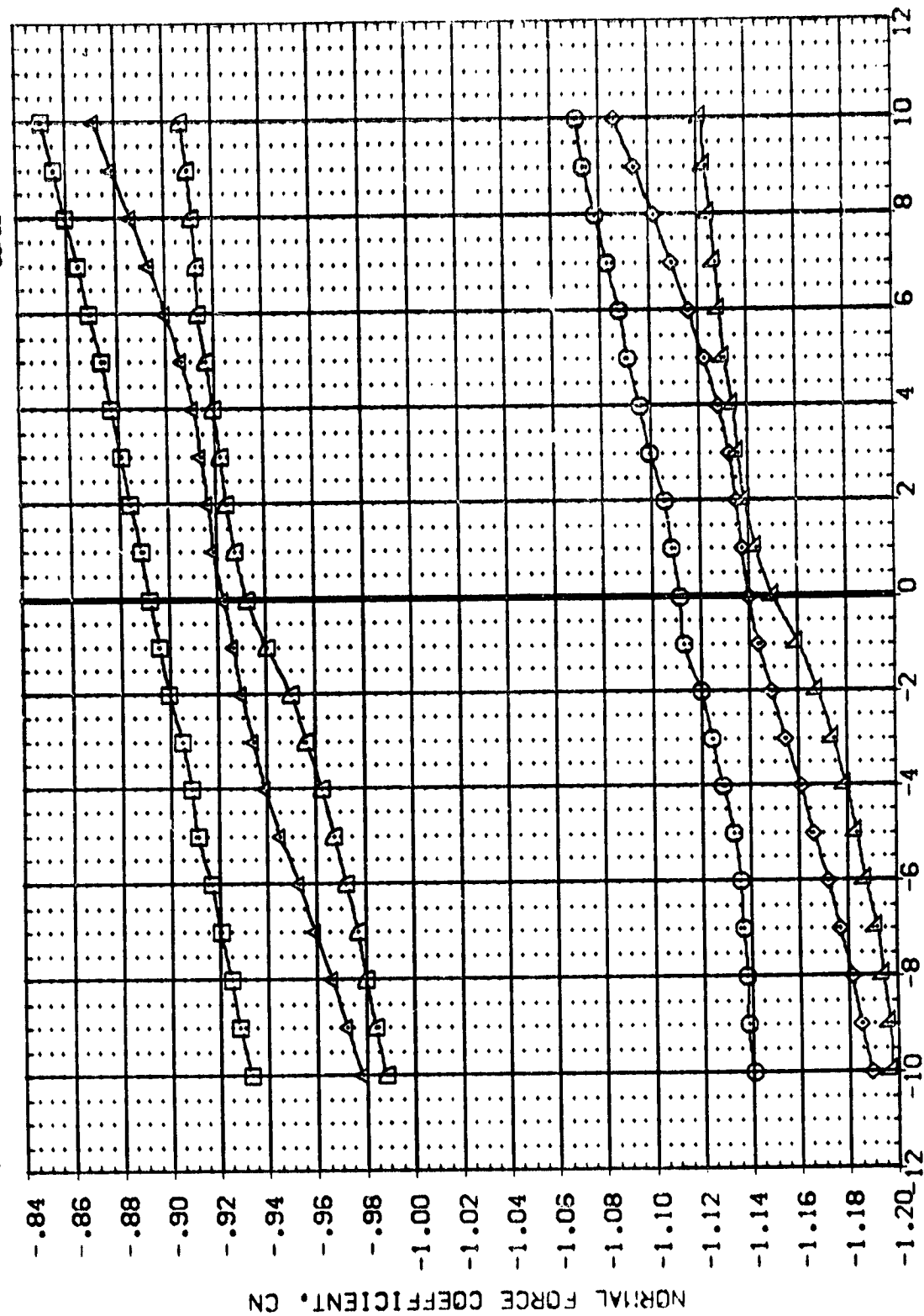
1.100 1.760 1500.000 .000 LREF 1590.3000 IN. XS

2.200 1.400 1500.000 .000 BRFP 1157.0000 IN. XS

3.300 1.760 1500.000 .000 VREF 400.0000 IN. XS

3.300 1.400 1500.000 .000 ZREF .0100 IN. XS

3.300 1.760 1500.000 .000 SCALE

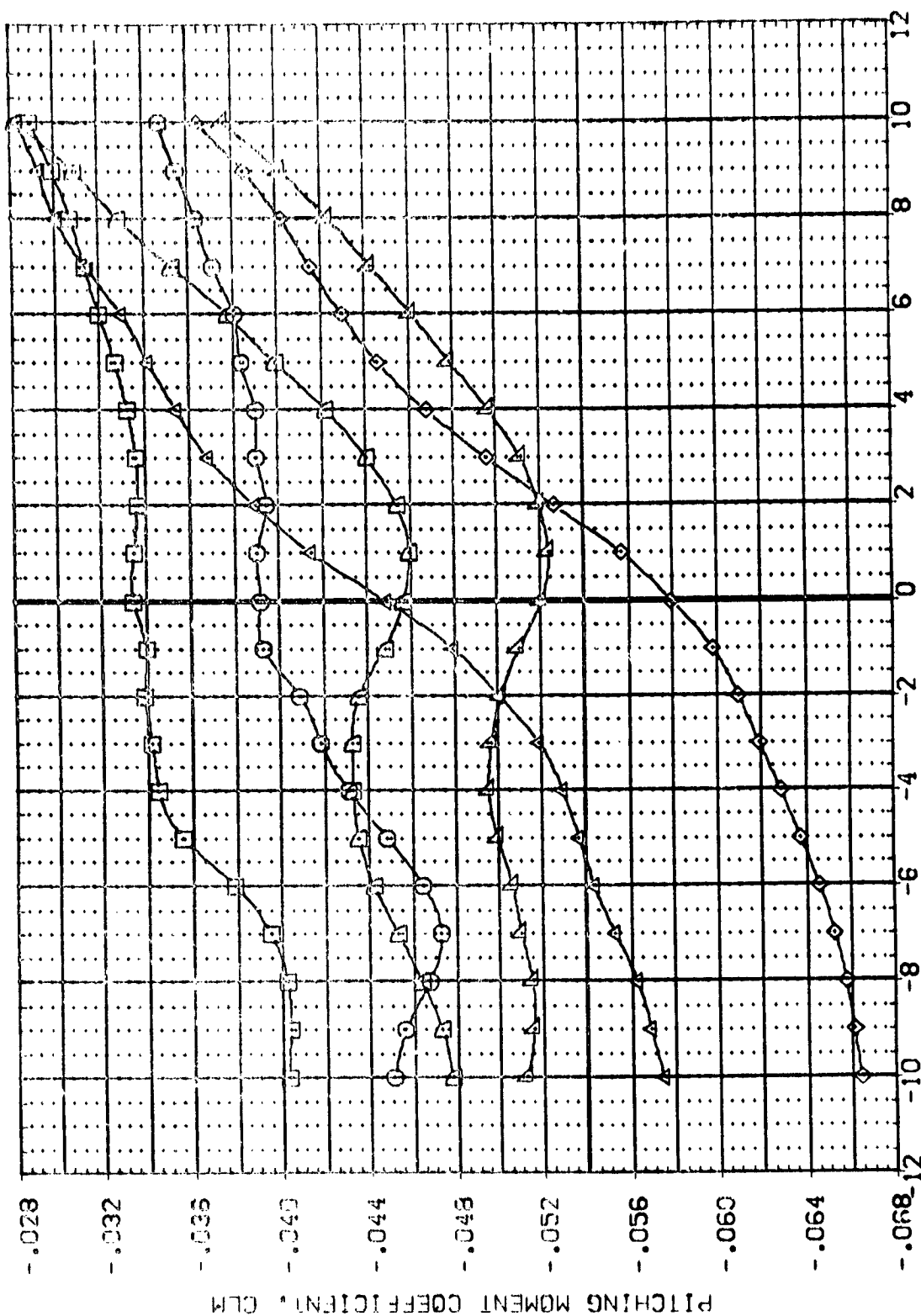


ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RVL	PT-JET	BETA	REFERENCE INFORMATION
(STL032)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	1.100	1.400	1500.000	.000	SREF 7690.0000 SQ. FT.
(STL038)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	1.100	.760	500.000	.000	LREF 190.3000
(STL043)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	2.200	1.400	500.000	.000	SREF 7690.0000
(STL049)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	2.200	.760	500.000	.000	LREF 190.3000
(STL054)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	3.300	1.400	500.000	.000	SREF 7690.0000
(STL059)	AEDC VA-422(A-57), CRB/ET V/BOOTH SRB	3.300	.760	500.000	.000	LREF 190.3000

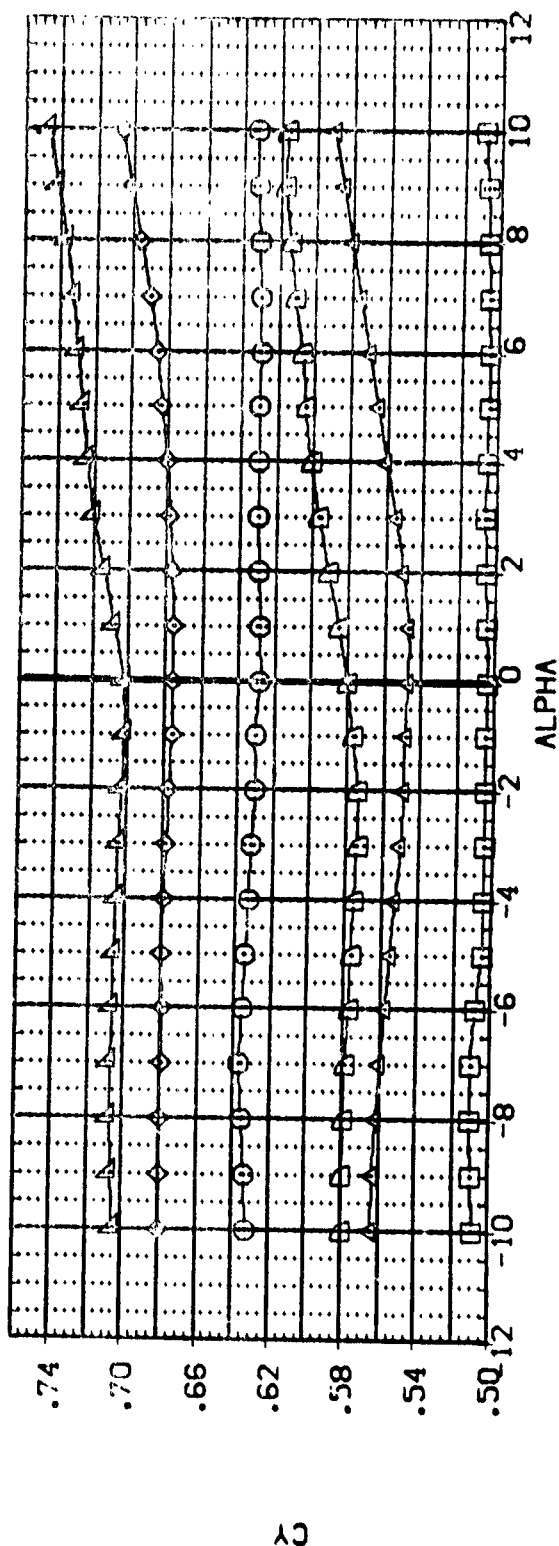
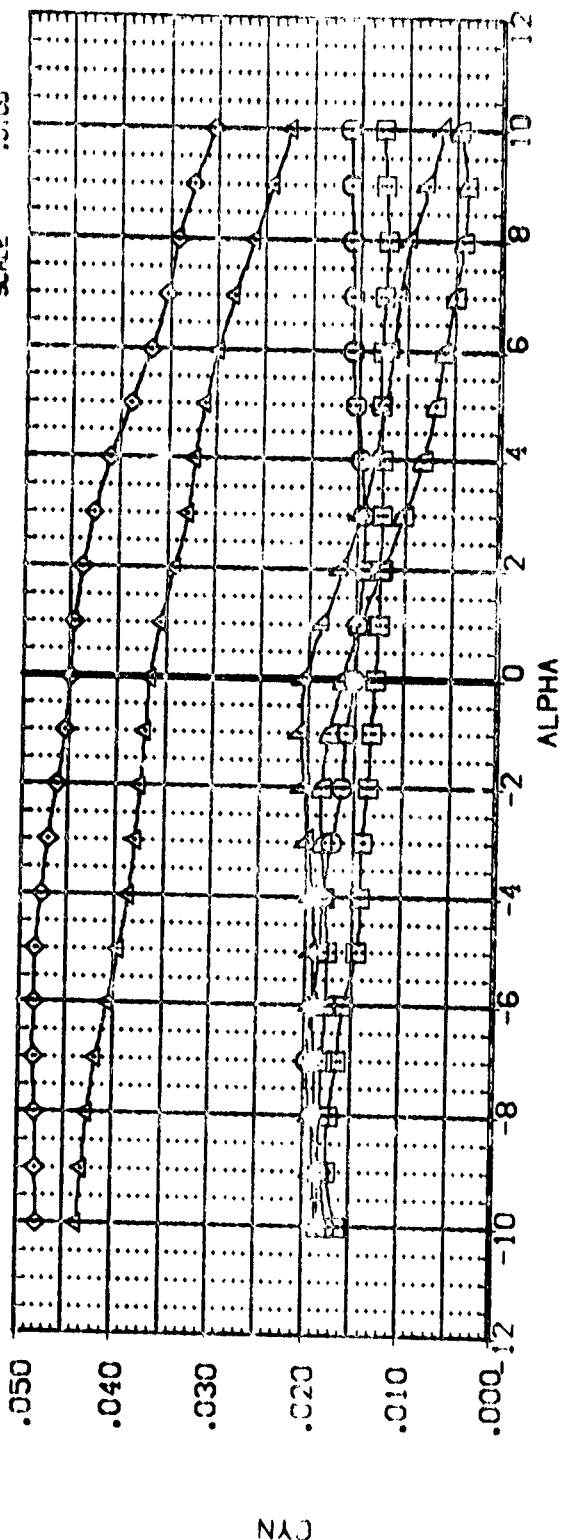


EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [SLO32] AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 [SLO38] AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 [SLO43] AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 [SLO49] AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 [SLO54] AEDC VA-422(1A-57), ORB/ET V/80TH SRB
 [SLO59] AEDC VA-422(1A-57), ORB/ET V/80TH SRB

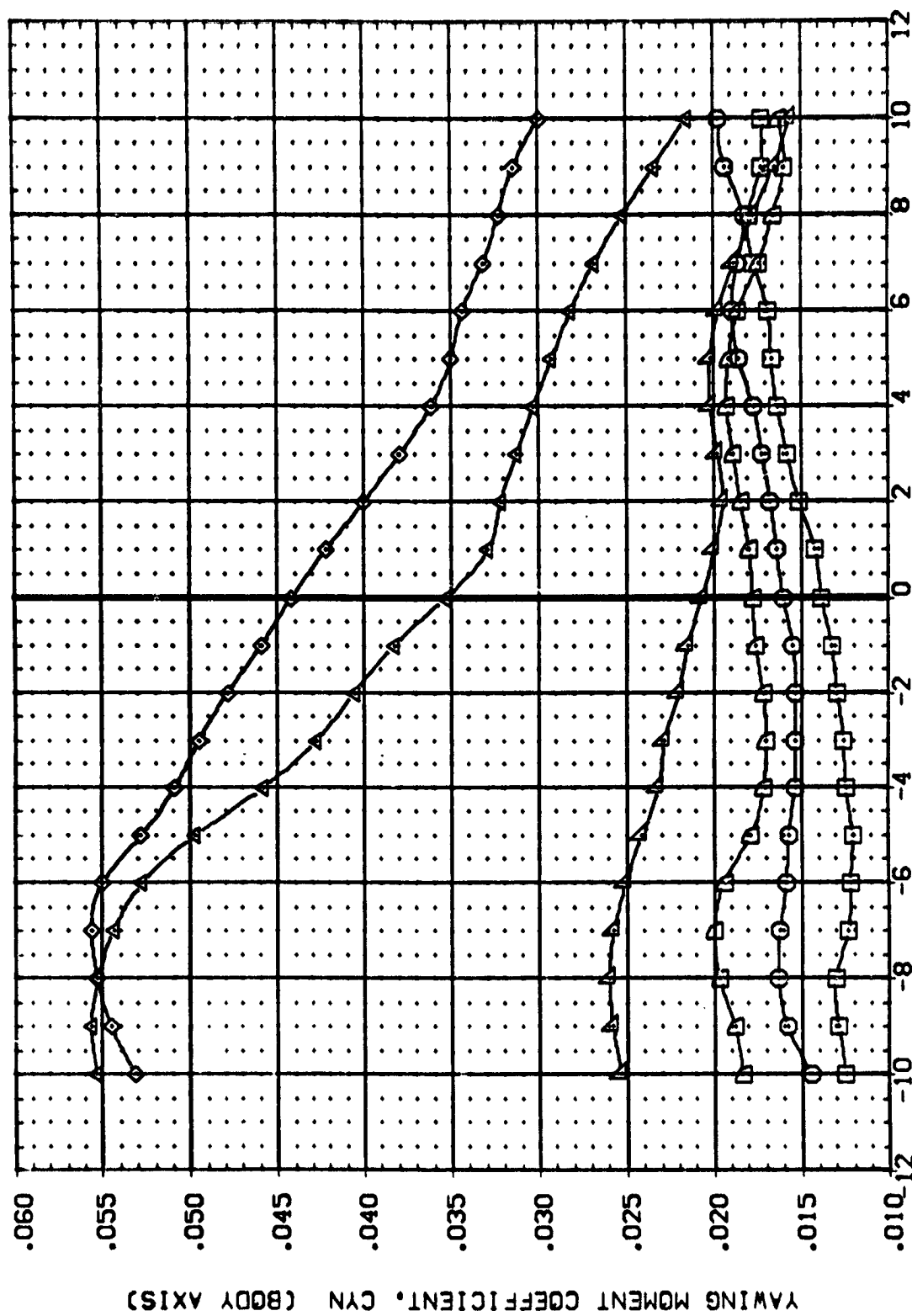
SRBPOS RM/L PT-JET BETA REFERENCE INFORMATION
 1.100 1.400 1500.000 .000 SREF 2690.0000 SQ.F.
 1.100 1.760 1500.000 .000 LREF 1590.0000
 2.200 1.760 1500.000 .000 DREF 1590.0000
 2.200 1.760 1500.000 .000 XREF 1167.0000
 3.300 1.400 1500.000 .000 YREF 1590.0000
 3.300 1.760 1500.000 .000 ZREF 1590.0000
 SCALE .0100



EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL033]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	1.100	1.400	1500.000	.000	SREF 2650.0000 SQ.FT.
[STL038]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	1.100	1.760	1500.000	.000	LREF 1790.3000 IN.
[STL044]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	2.200	1.400	1500.000	.000	BREF 1790.3000 IN.
[STL050]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	2.200	1.760	1500.000	.000	YMRP 1167.0000 IN.
[STL055]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	3.300	1.400	1500.000	.000	YMRP 1167.0000 IN.
[STL061]	AEDC VA-422(A-57), ORB/ET V/80TH SRB	3.300	1.760	1500.000	.000	SCALE 400.0000 IN.
						SCALE 0.00

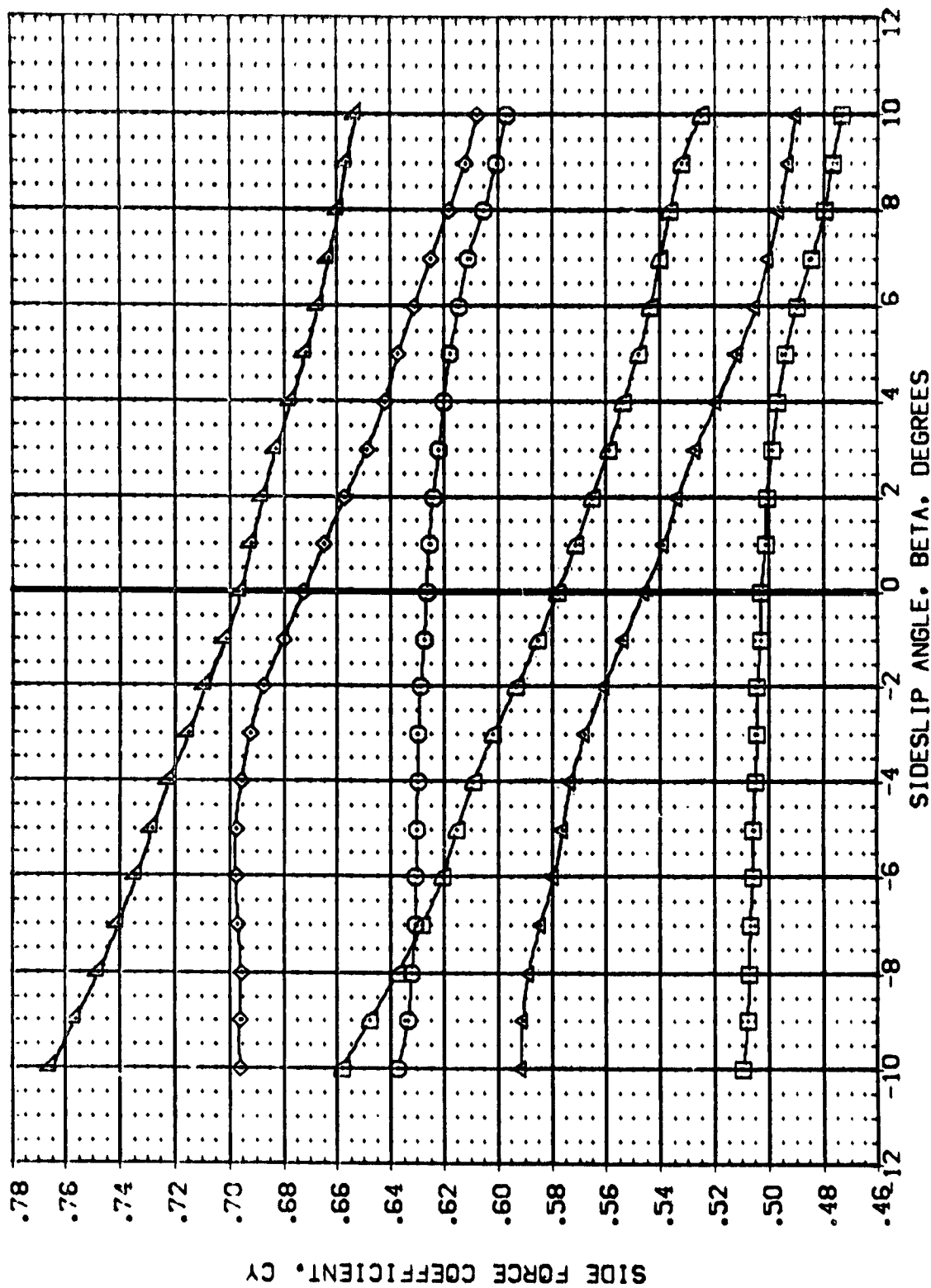


EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRB POS RV/L PT-JET ALPHA REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL033]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	1.100	1.400	1500.000	.000	SREF 2690.0000 SO.FT.
[STL039]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	1.100	1.760	1500.000	.000	LREF 1290.3000 IN.
[STL044]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	2.200	1.400	1500.000	.000	BREF 1290.3000 IN.
[STL050]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	2.200	1.760	1500.000	.000	XPBP 1167.0000 IN.
[STL055]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	3.300	1.400	1500.000	.000	YMRP .0000 IN.
[STL056]	AEDC VA-422(IA-57); CRB/ET V/BOTH SRB	3.300	1.760	1500.000	.000	ZMRP 400.0000 IN.
						SCALE .0100



EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

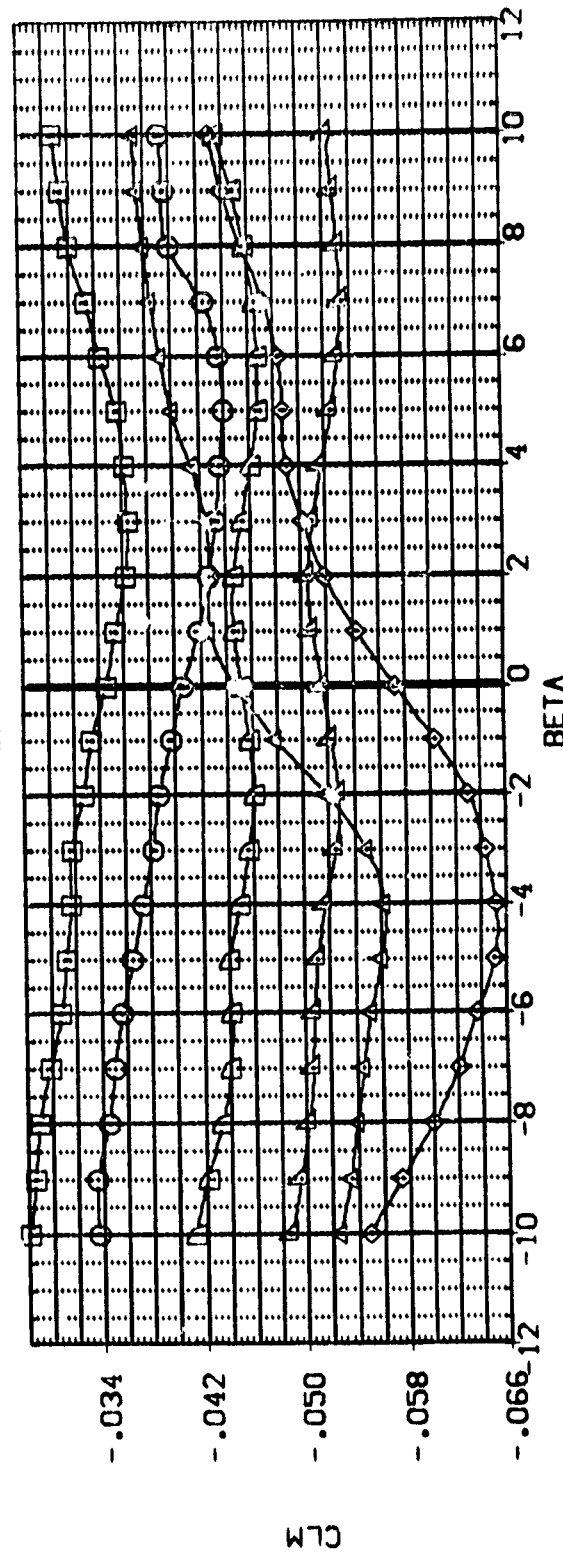
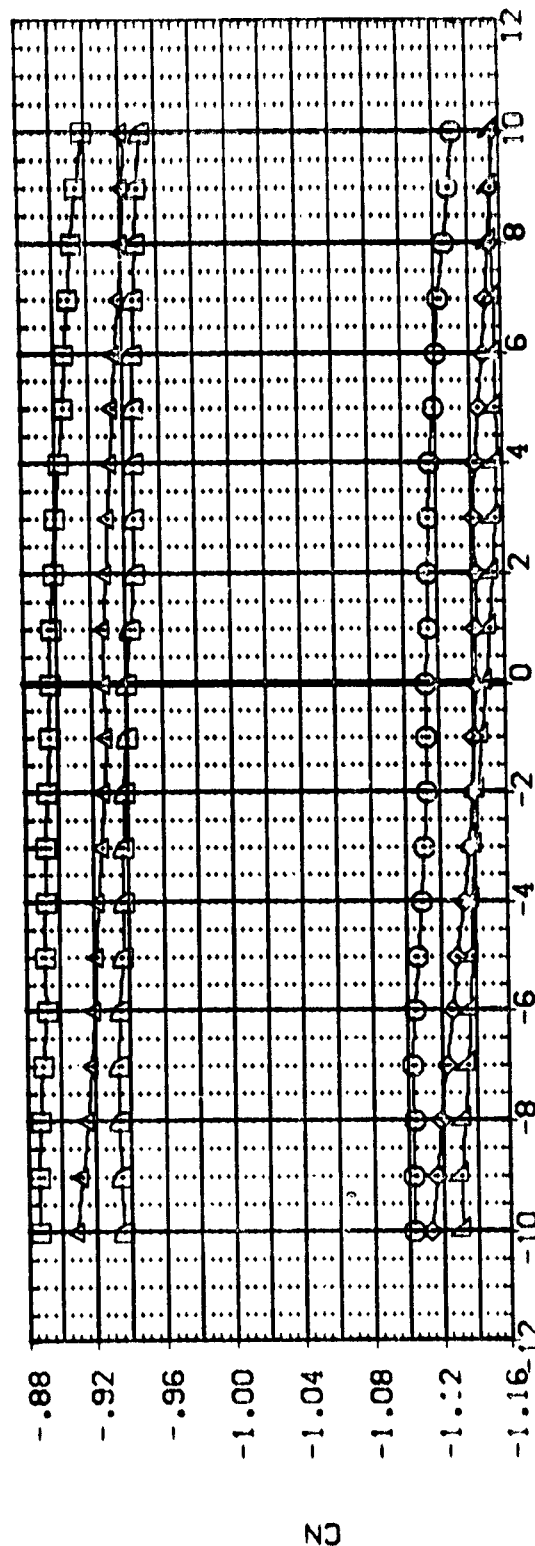
(A) MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[S1C33]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB
[S1C39]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB
[S1C44]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB
[S1C50]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB
[S1C55]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB
[S1C61]	AEDC VA-422(A-57), ORB/ET V/BOTH SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION

1.100	1.400	1500.000	.000	SREF	2650.0000	50.00
1.100	1.760	1500.000	.000	REF	1750.0000	3000
2.200	1.400	1500.000	.000	BREF	1750.0000	3000
2.200	1.760	1500.000	.000	YREF	1157.0000	AS
3.300	1.400	1500.000	.000	YREF	1157.0000	YS
3.300	1.760	1500.000	.000	YREF	1157.0000	YS
				SCALE	400.0000	
					.0100	

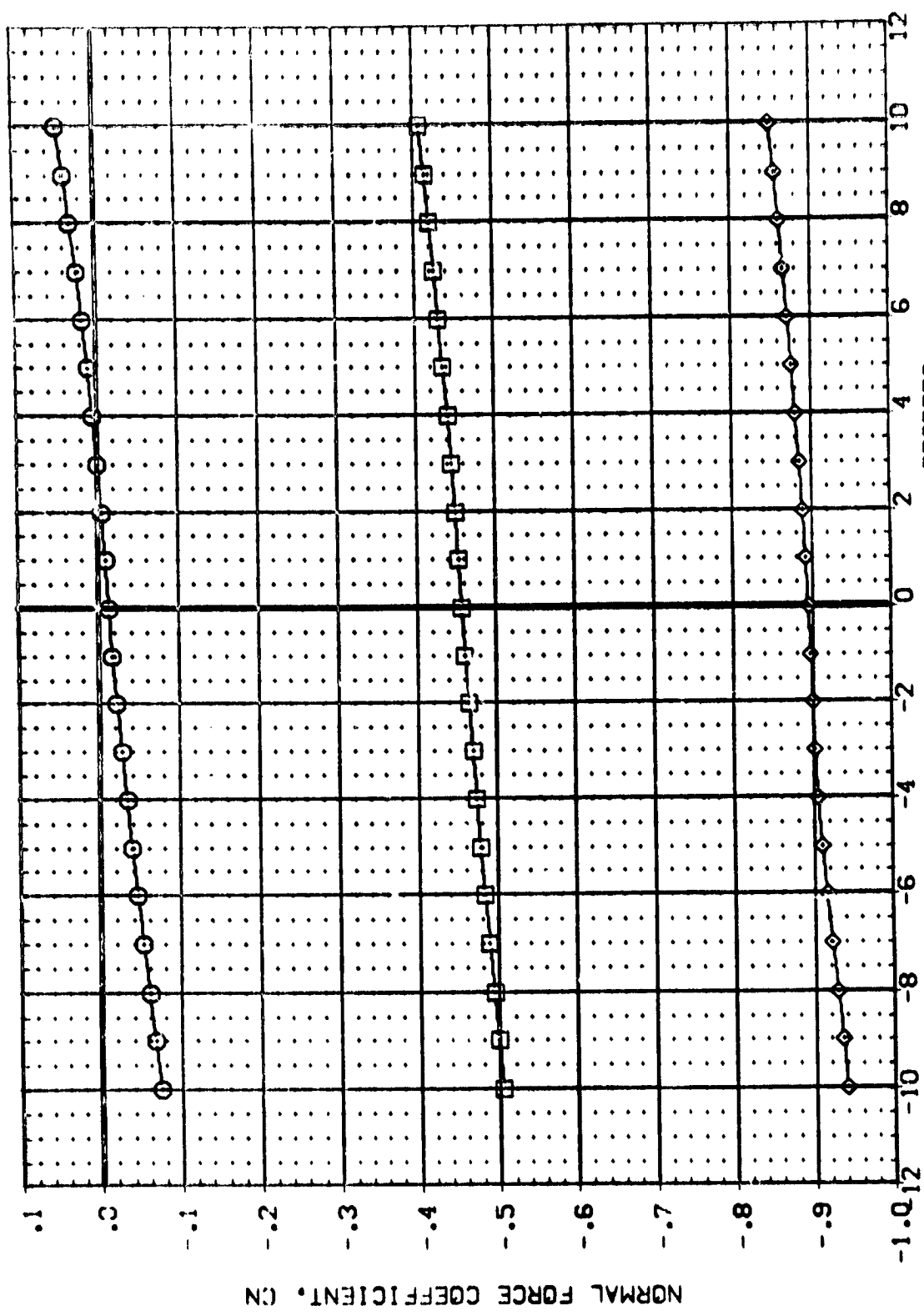


EFFECT OF REYNOLDS NUMBER ON SRB CHARACTERISTICS

(A)^{MACH} = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (ST-009) \square AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (ST-011) \diamond AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 (ST-013) \diamond AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB

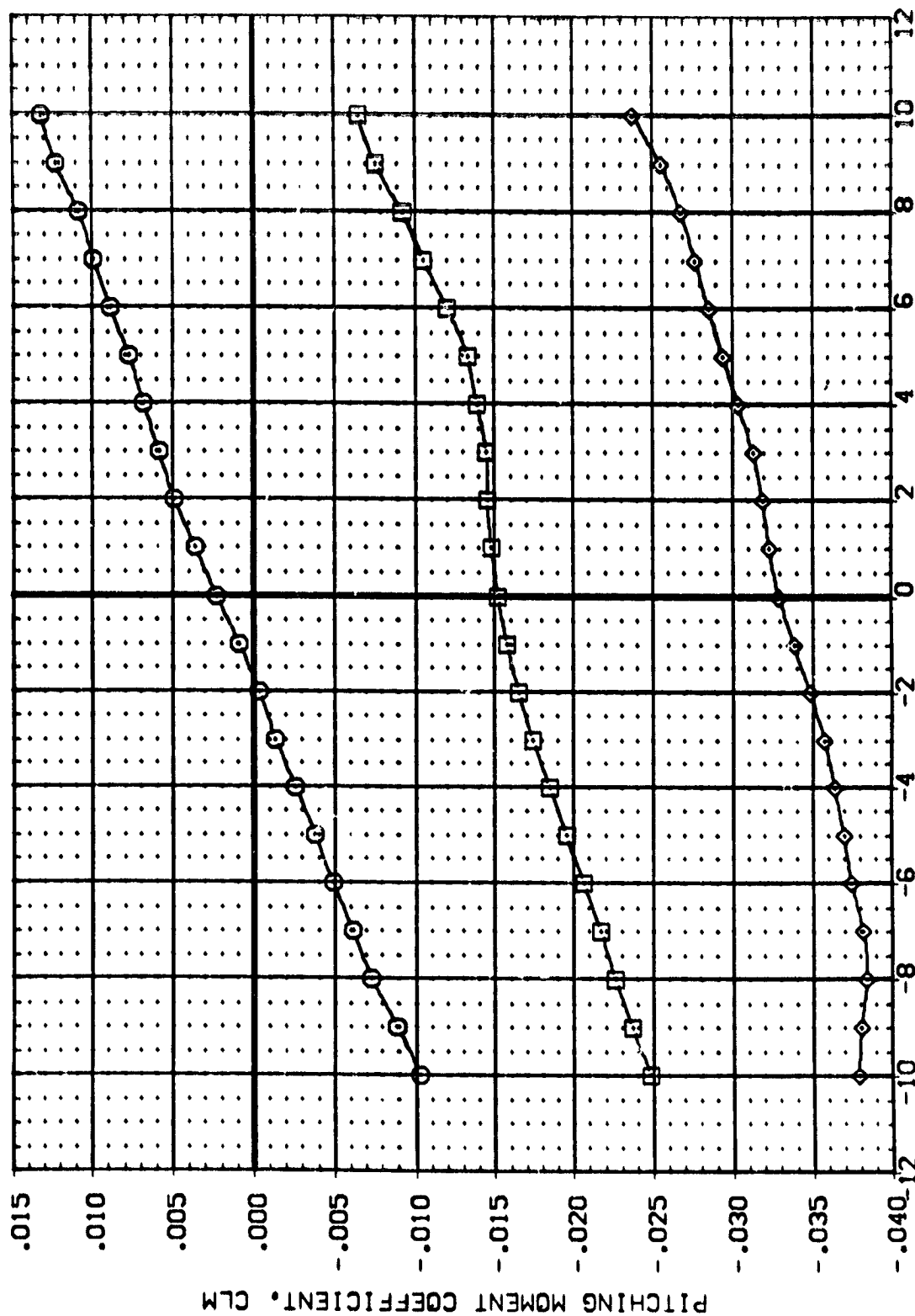
SUBPOS RV/L PT-JET BETA REFERENCE INFORMATION
 .100 1.760 .000 SREF 2950.0000 SQ.FT.
 .100 1.760 750.000 LREF 1750.3000 IN.
 .100 1.760 1500.000 BREF 1250.3000 IN.
 YPRP 1167.0000 IN. XS
 ZPRP 400.0000 IN. YS
 SCALE .0100 IN. ZS



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 1)

CAJ MACH = 4.50

REFERENCE INFORMATION		SO FT.
SREF	2690.0000	IN.
LREF	1790.3000	IN.
BREF	1790.3000	IN.
NSREF	1167.0000	IN.
NSREF	1000.0000	IN.
NSREF	400.0000	IN.
SCALE	.0100	IN.



ANGLE OF ATTACK, ALPHA, DEGREES

$$[A]_{\text{MACH}} = 4.50$$

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

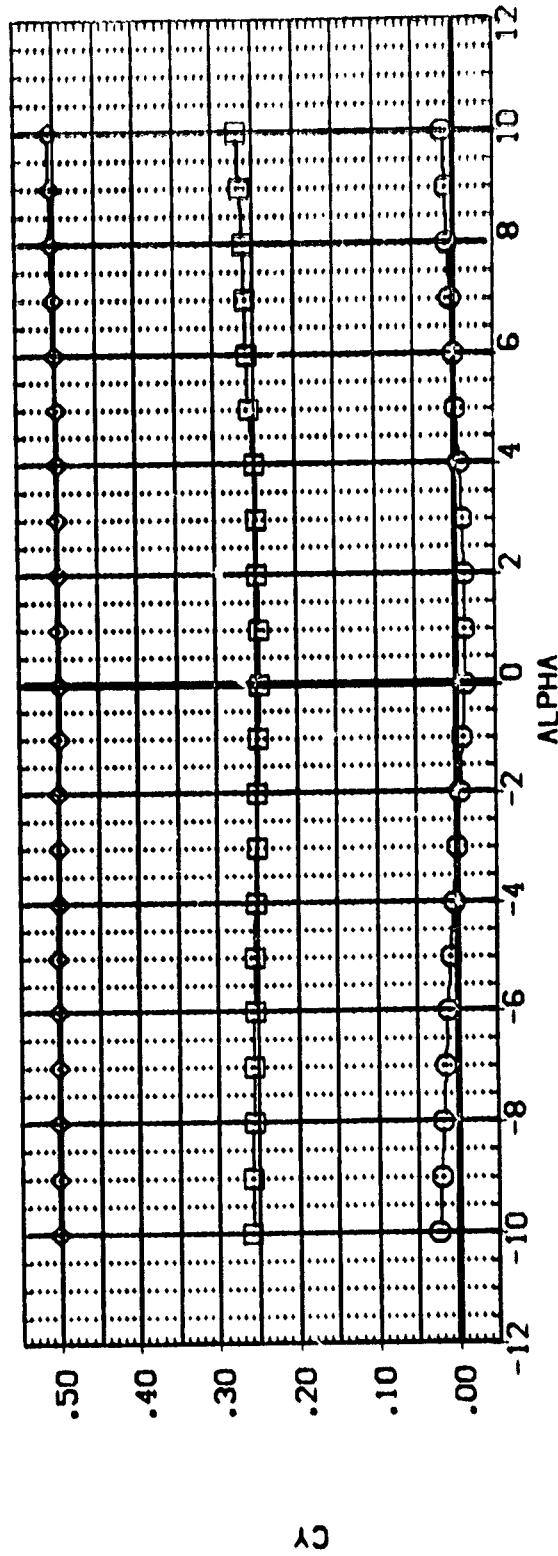
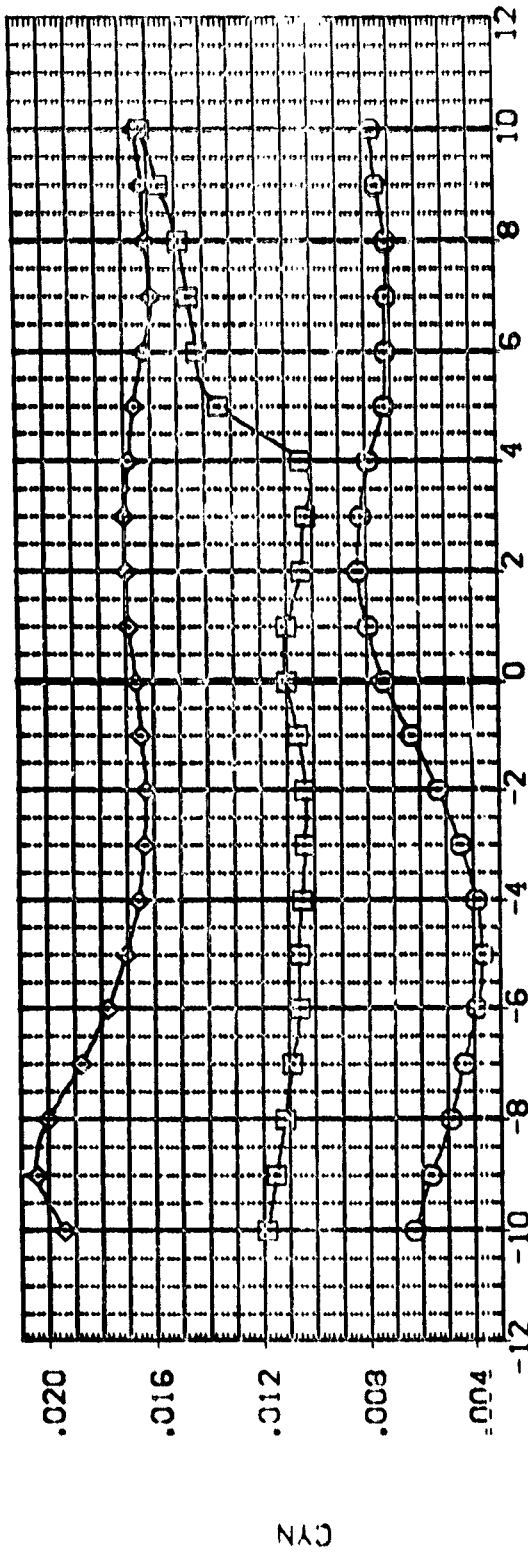
(STL009) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 (STL011) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB
 (STL013) AEDC VA-422(1A-57), ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET BETA

.100 1.760 .000
 .100 1.760 750.000
 .100 1.760 1500.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.
 LREF 1790.3000 IN.
 BREF 1790.3000 IN.
 XREF 1157.0000 IN.
 YREF 400.0000 IN.
 ZREF 400.0000 IN.
 SCALE 0.100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 1)

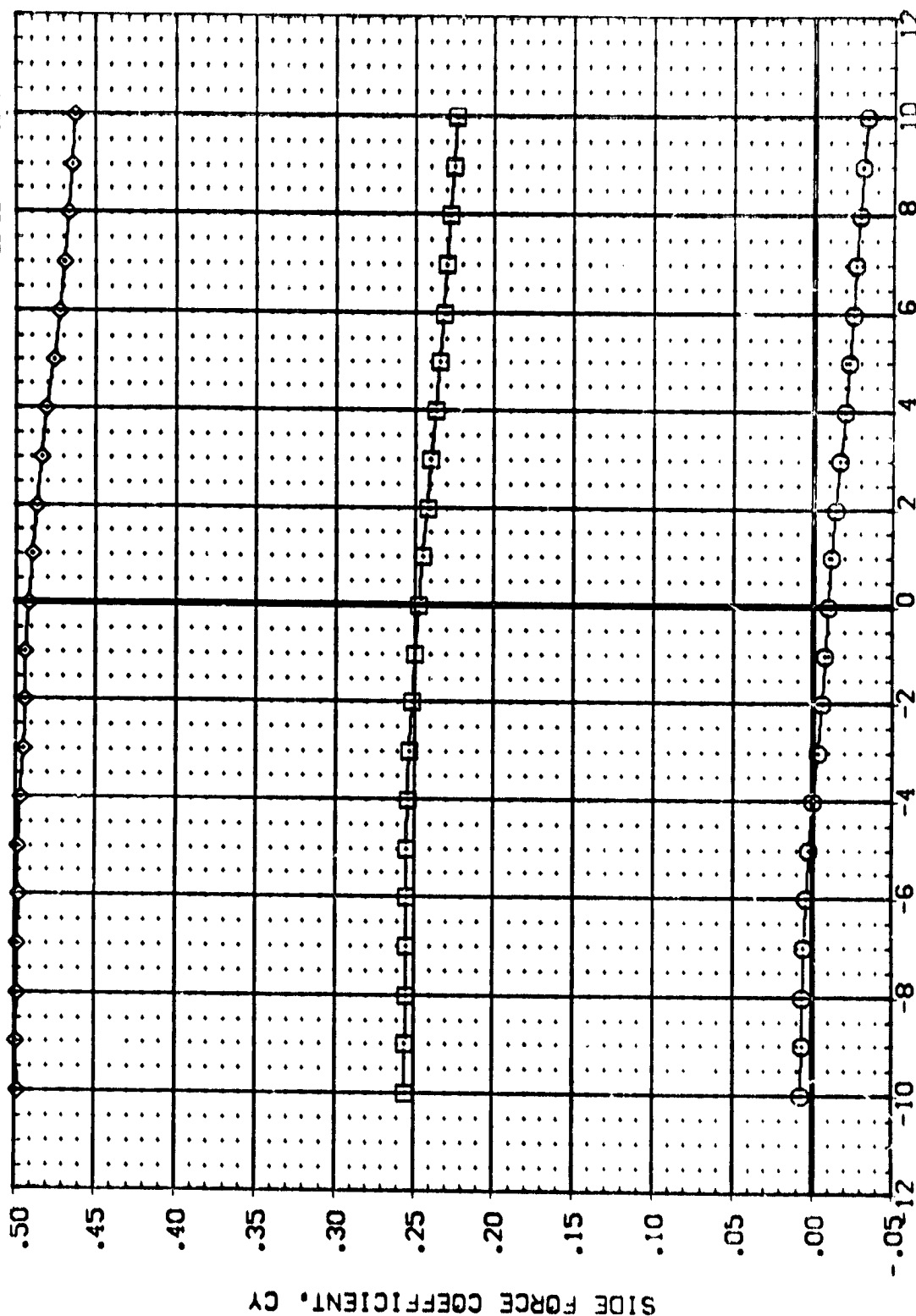
CAJ MACH = 4.50

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

[STLO10] AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 [STLO12] AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 [STLO14] AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION
 .100 1.760 .000 SREF 2690.0000 SO.FT.
 .100 1.760 750.000 LREF 1290.3000 IN.
 .100 1.760 1500.000 BRFP 1290.3000 IN.
 XREF 1167.0000 IN. XS
 YREF 480.0000 IN. YS
 ZREF 480.0000 IN. ZS
 SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 1)

(A)MACH = 4.50

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DATA SET SYMBOL: (STL010) (STL012) (STL014)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/EI V/RIGHT SRB AEDC VA-422(1A-57); ORB/EI V/RIGHT SRB AEDC VA-422(1A-57); ORB/EI V/RIGHT SRB

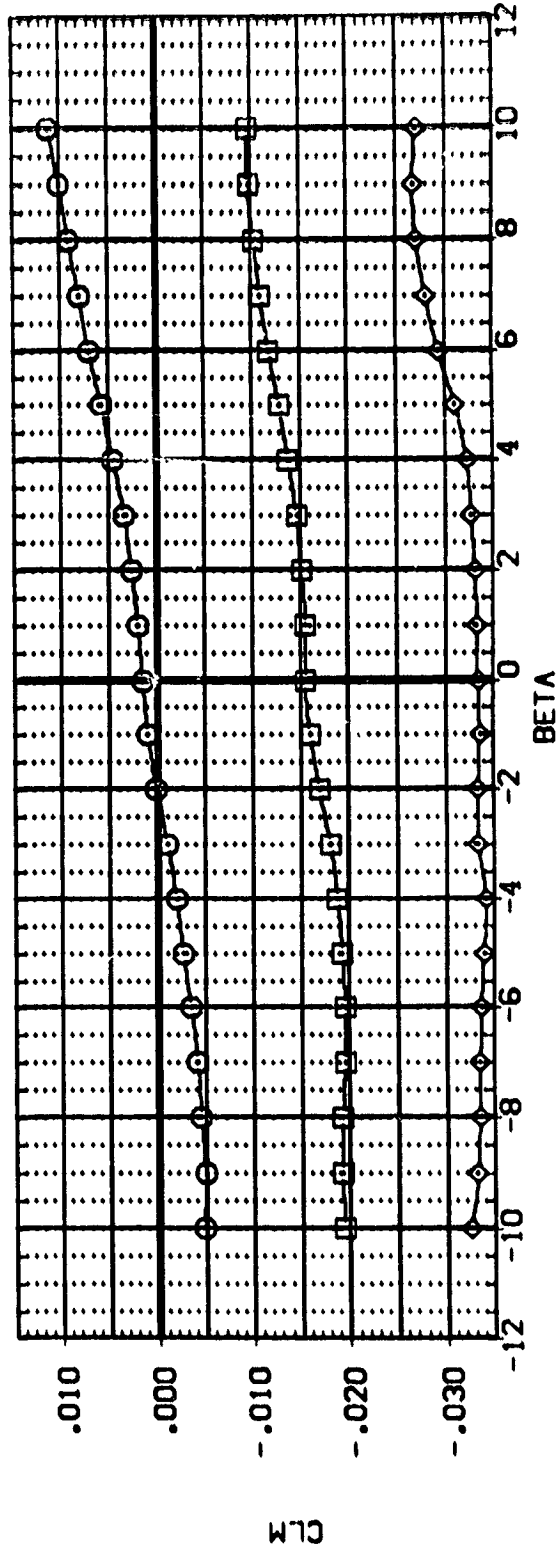
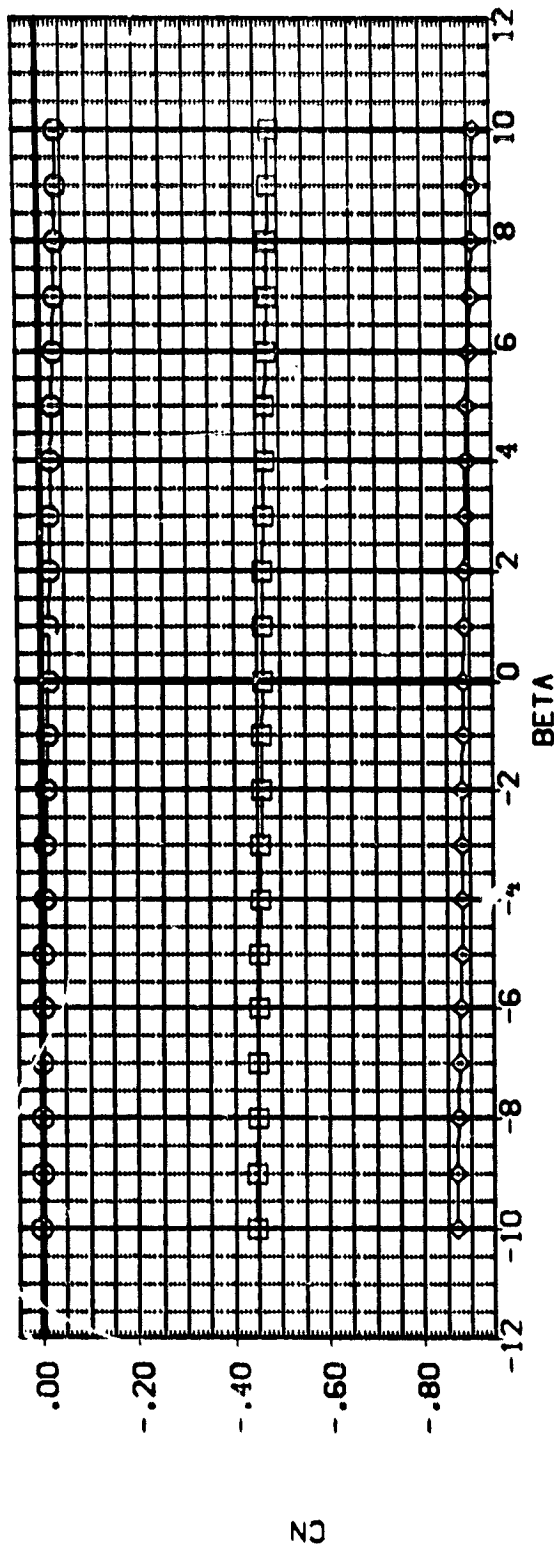
SRB POS: .100 .100 .100

RV/L: 1.760 1.760 1.760

PT-JET: .000 .000 .000




ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 1790.3000 IN. SREF 1290.3000 IN. VREF 1167.0000 IN. ZREF .0000 IN. SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 1)

(A)MACH = 4.50

DATA SET SYMBOL: [STLO17] [STLO19] [STLO21]    

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB
AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB

SRB POS: .200 .200 .200

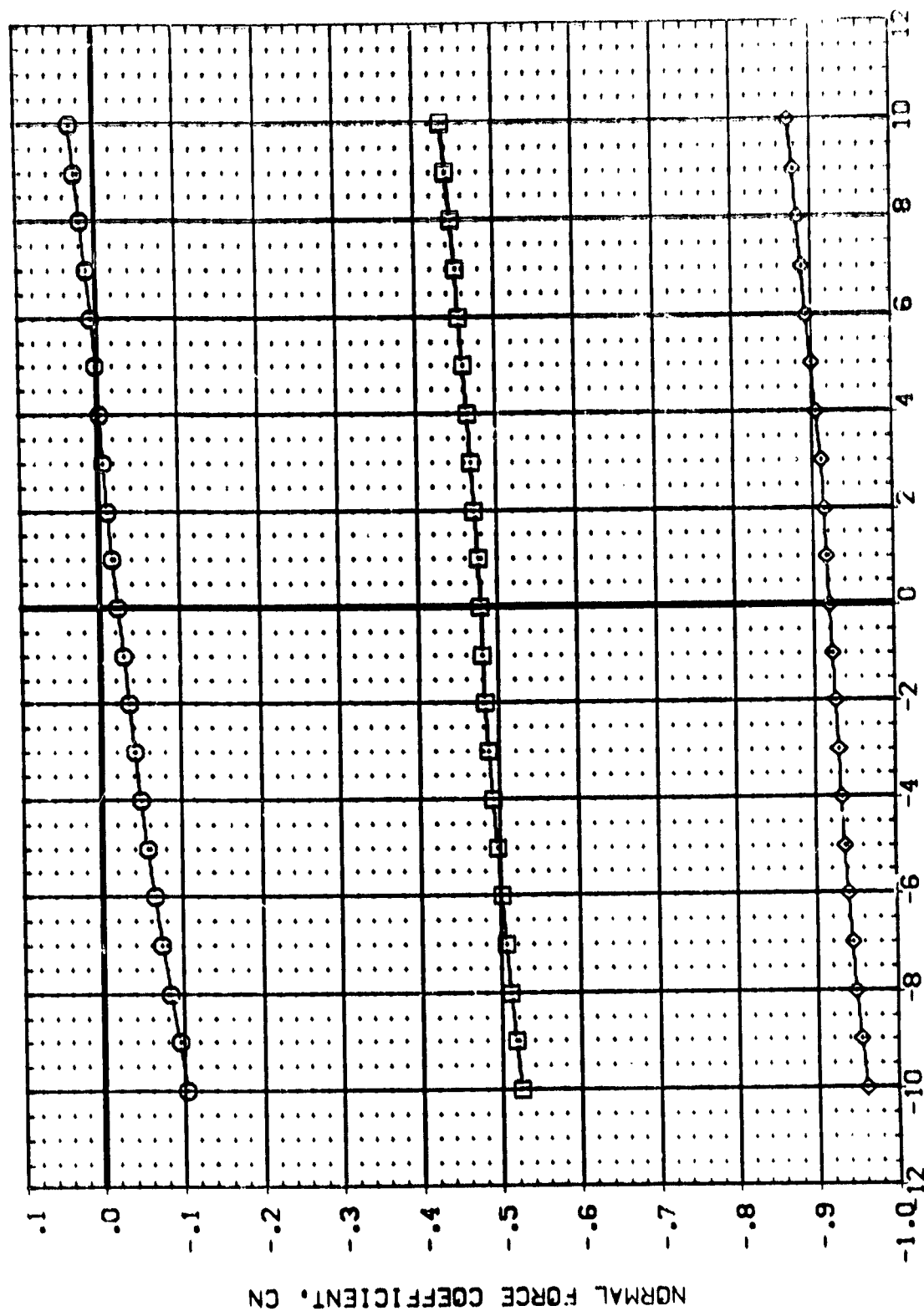
RV/L: 1.760 1.760 1.760

PT-JET: .000 .000 .000

BETA: .000 .000 .000

REFERENCE INFORMATION: SREF 7690.0000
LREF 1250.3000
BREF 1250.3000
WREF 1167.0000
WREF 400.0000
SCALE .0100

SD: 1.0
IN: 1.0
IN: 1.0
IN: 1.0
IN: 1.0
IN: 1.0



ANGLE OF ATTACK, ALPHA, DEGREES

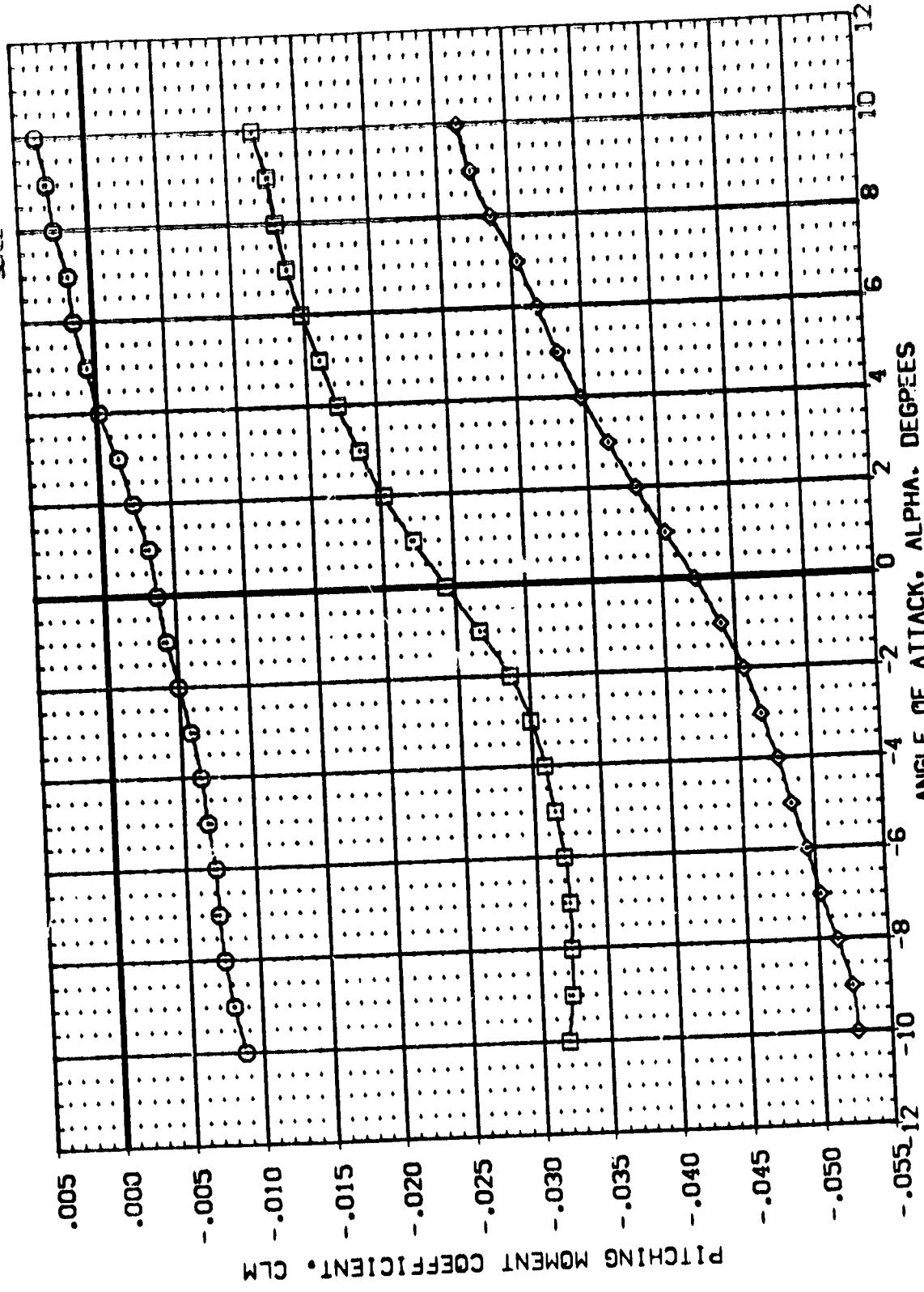
EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

(A)MACH = 4.50

REFERENCE INFORMATION
 SIZE 150.0000 50.17
 LREF 150.0000 1.0
 BREF 150.0000 1.0
 YREF 150.0000 1.0
 XREF 150.0000 1.0
 YREF 150.0000 1.0
 XREF 150.0000 1.0
 SCALE 1.0000

SRBPOS RW/L PT-JET BETA
 .200 1.760 .000
 .200 1.760 750.000
 .200 1.760 1500.000

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (S1L017) AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB
 (S1L019) AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB
 (S1L021) AEDC VA-422(1A-57): ORB/ET W/RIGHT SRB



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

(A)MACH = 4.50

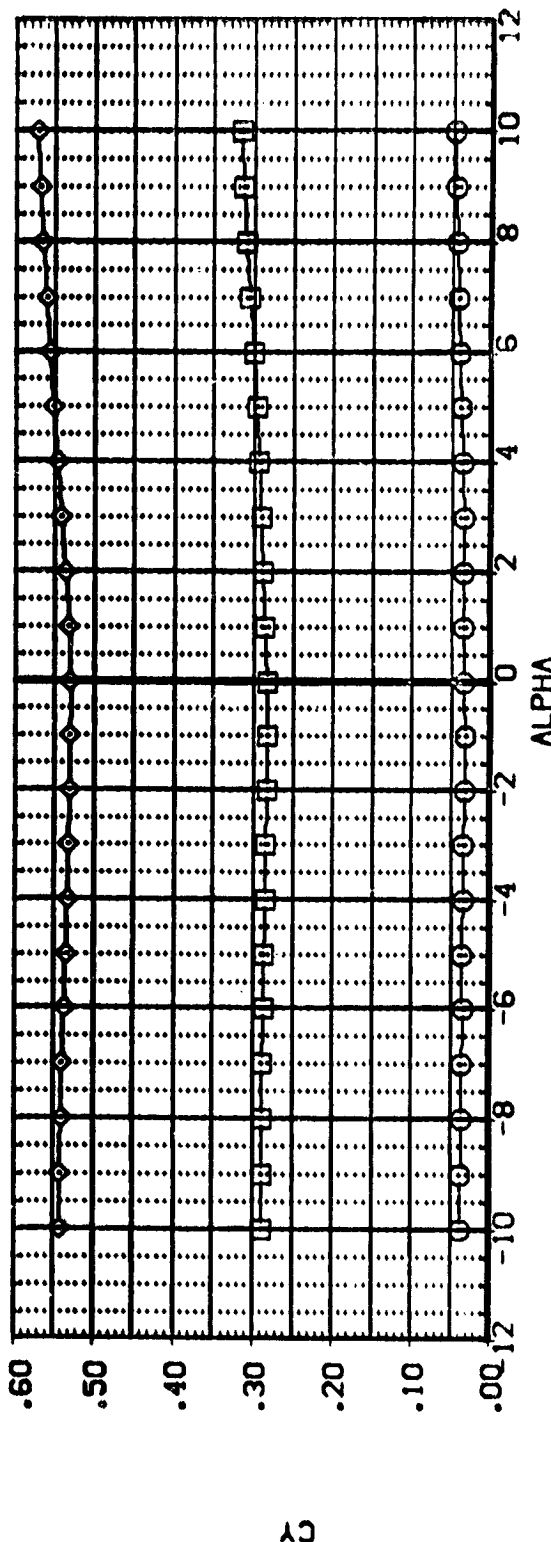
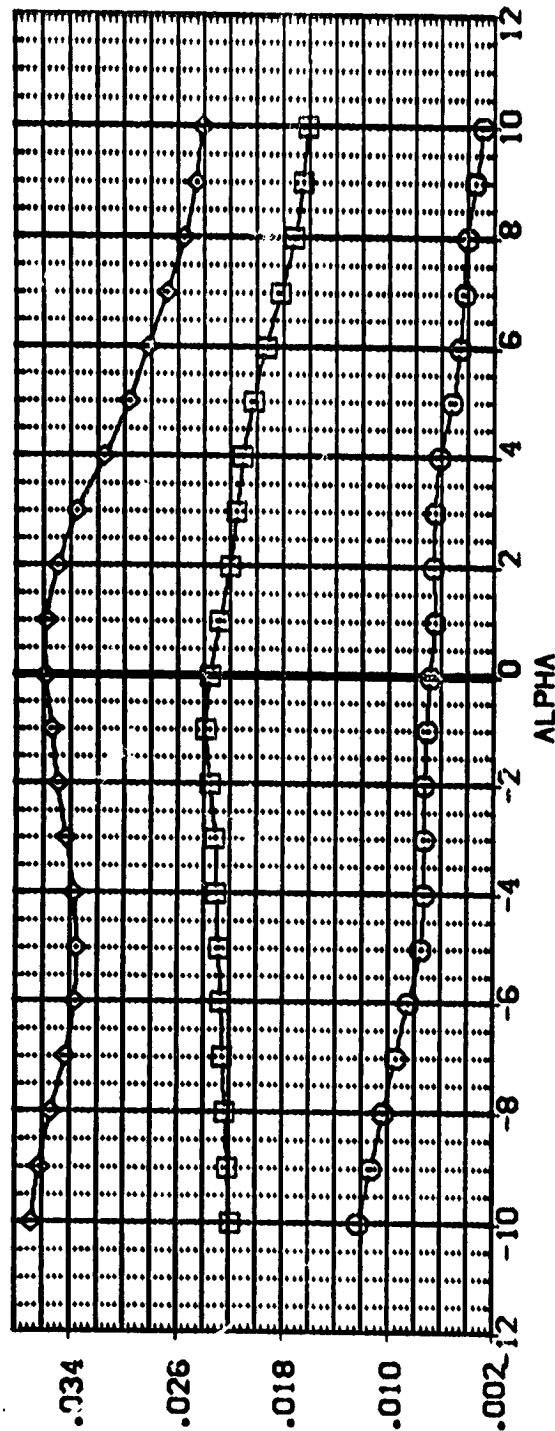
DATA SET SYMBOL
 (STLO17)
 (STLO19)
 (STLO21)

CONFIGURATION DESCRIPTION

AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57). ORB/ET V/RIGHT SRB

SRBPOS RV/L PT-CLT BETA

REFERENCE INFORMATION
 SREF 2650.0000 24.57.
 LREF 1250.3000 IN.
 BRFF 1250.3000 IN.
 XPRP 1157.0000 IN. XS
 YPRP 400.0000 IN. YS
 ZPRP 400.0000 IN. ZS
 SCALE .0100

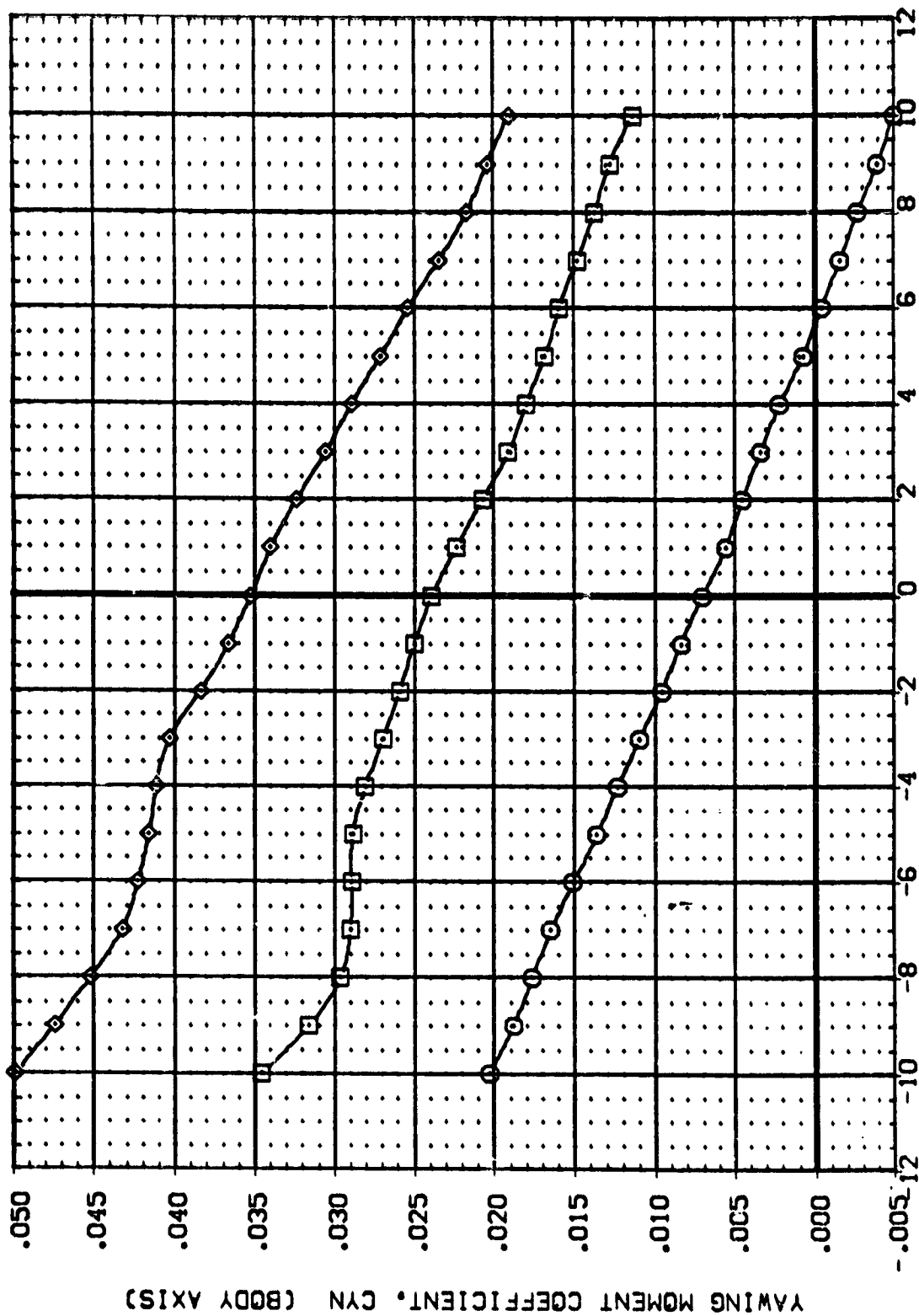


EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

(A)MACH = 4.50

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SRB POS		RV/L		PT-JET		ALPHA		REFERENCE INFORMATION	
[S/L018]	[S/L020]	[S/L022]	AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB	.200	1.760	.000	.000	.000	SREF	2690.0000	SO.F.T.		
			AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB	.200	1.760	750.000	.000	.000	LREF	1290.3000	IN.		
			AEDC VA-422(1A-57), ORB/ET V/R/RIGHT SRB	.200	1.760	1500.000	.000	.000	BREF	1290.3000	IN.		
									XPBP	1167.0000	IN.		
									YMPP	.0000	IN.		
									ZMPP	.0000	IN.		
									SCALE	0.000	IN.		

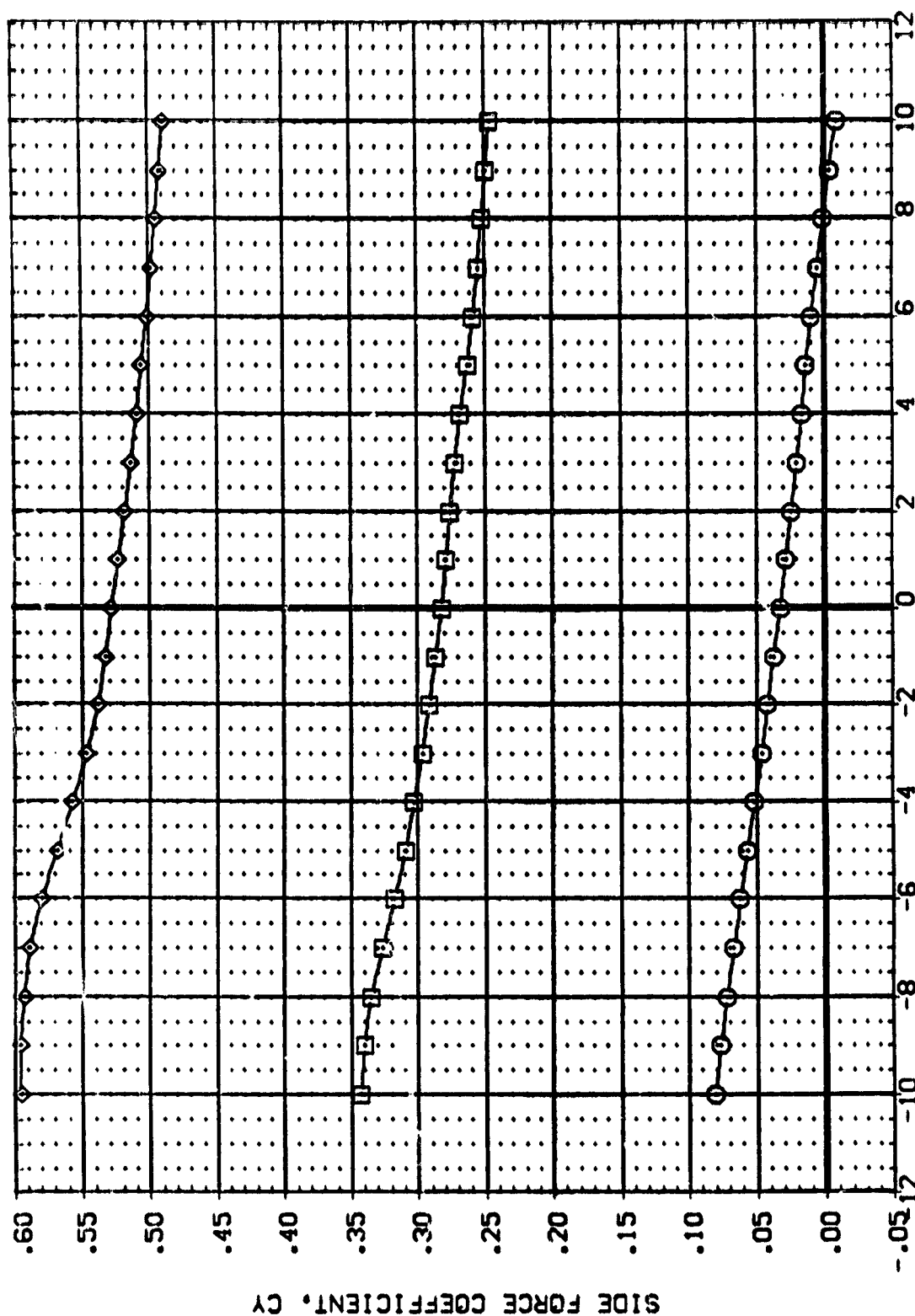


EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

(A)MACH = 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRBPOS	RV/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL018]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	.000	.000	SREF 2680.0000 SO.FT.
[STL020]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	750.000	.000	LREF 1250.3000 IN.
[STL022]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.200	1.760	1500.000	.000	SREF 1250.3000 IN.
						XREF 1167.0000 IN. YS
						YREF 400.0000 IN. YS
						ZREF 400.0000 IN. YS
						SCALE .0100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

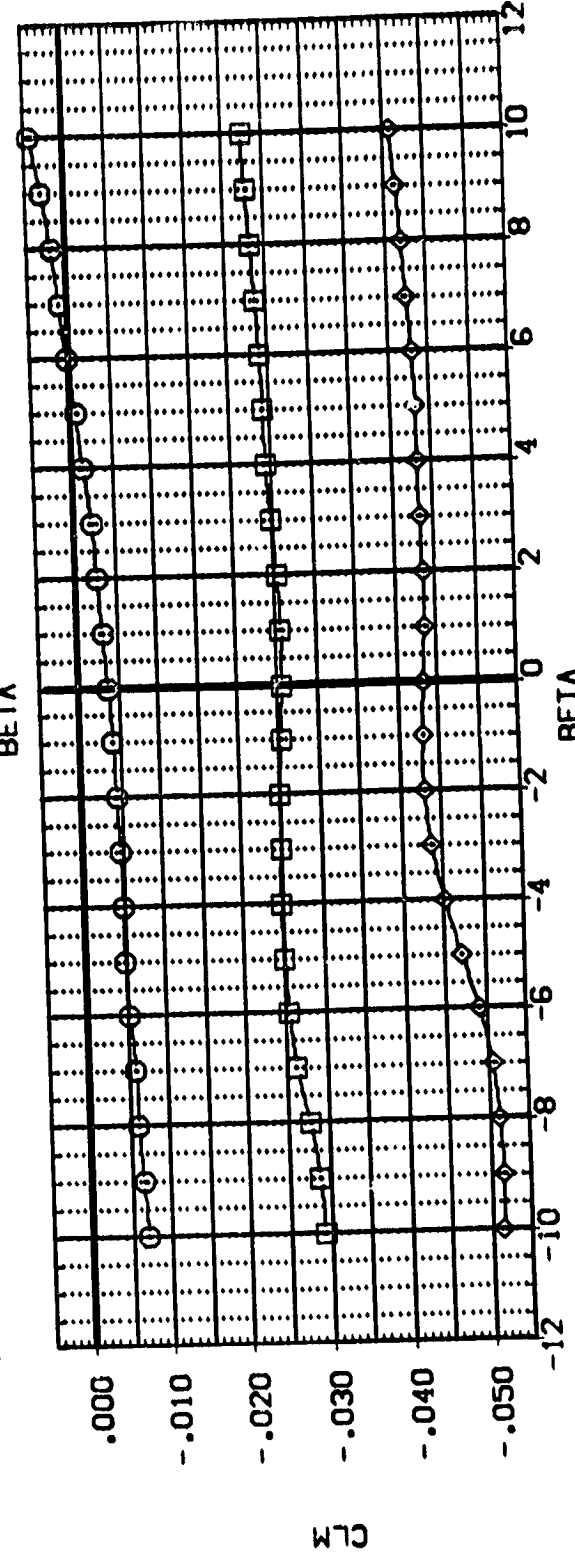
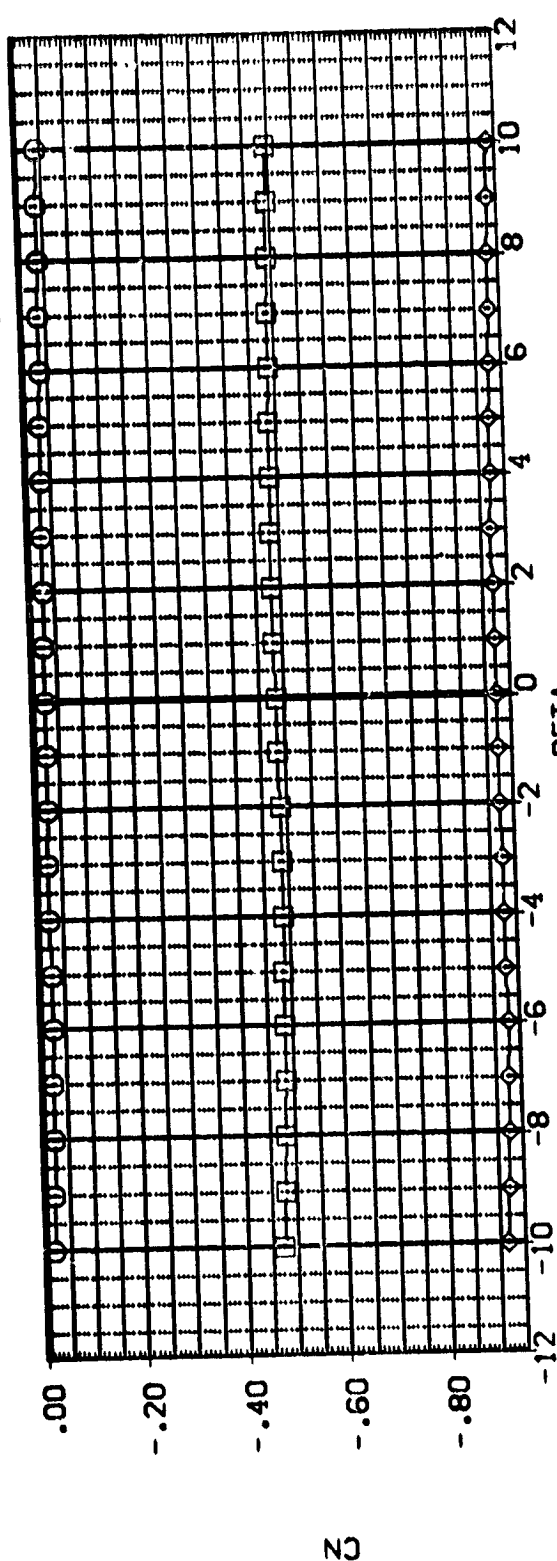
(A)MACH = 4.50

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DATA SET SYMBOL
 (S1010)
 (S1020)
 (S1022)

CONFIGURATION DESCRIPTION
 AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
 AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
 AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB

SRBPOS RV/L PT-JET ALPHA REFERENCE INFORMATION SD.FT.
 .200 1.760 .000 SREF 2690.0000 IN.
 .200 1.760 750.000 LREF 1750.3000 IN.
 .200 1.760 1500.000 BREF 1250.3000 IN.
 .200 1.760 1500.000 XMRP 1167.0000 IN.
 .200 1.760 1500.000 YMRP .0000 IN.
 .200 1.760 1500.000 ZMRP .0000 IN.
 .200 1.760 1500.000 SCALE .0100

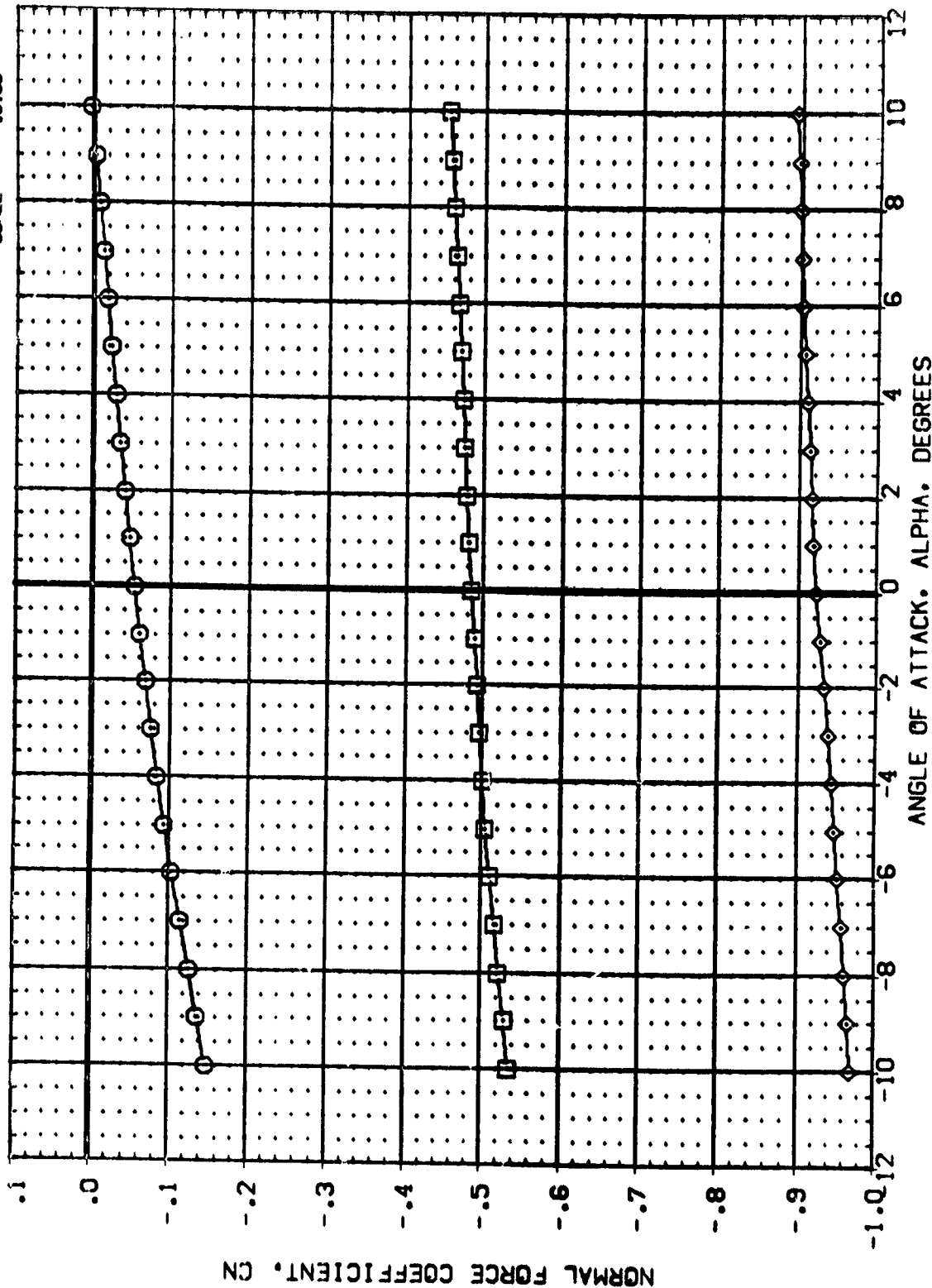


EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 2)

(A)MACH = 4.50

DATA SET SYMBOL: (STL025) (STL027) (STL029)
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB
 AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB

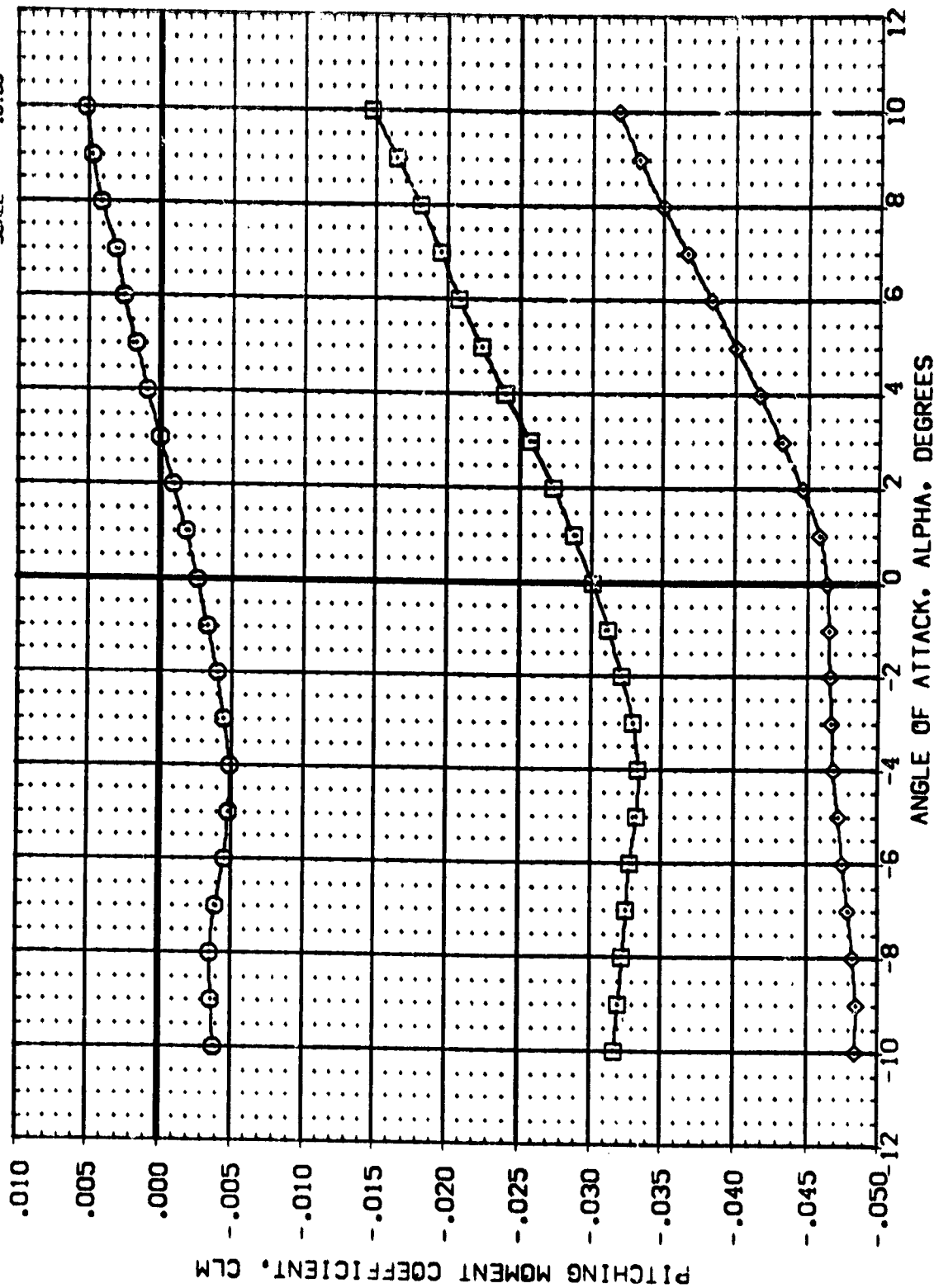
SRB POS: .300 .300 .300
 R/V/L: 1.760 1.760 1.760
 PT-JET: .000 .000 .000
 BETA: .000 .000 .000
 REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 IN.
 BREF: 1290.3000 IN.
 XMRP: 1167.0000 IN. XS
 YMRP: .0000 IN. YS
 ZMRP: 400.0000 IN. ZS
 SCALE: .0100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 3)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RV/L	PT-JET	BETA	REFERENCE INFORMATION
(S/L025)	AEDC VA-422(1A-57), ORB/ET V/R/IGHT SRB	.300	1.760	.000	.000	SREF 7690.0000 50.57.
(S/L027)	AEDC VA-422(1A-57), ORB/ET V/R/IGHT SRB	.300	1.760	750.000	.000	LREF 1290.3000 12.
(S/L029)	AEDC VA-422(1A-57), ORB/ET V/R/IGHT SRB	.300	1.760	1500.000	.000	BREF 1290.3000 12.
						XMRP 1167.0000 12.
						YMRP 400.0000 12.
						ZMRP 400.0000 12.
						SCALE .0100



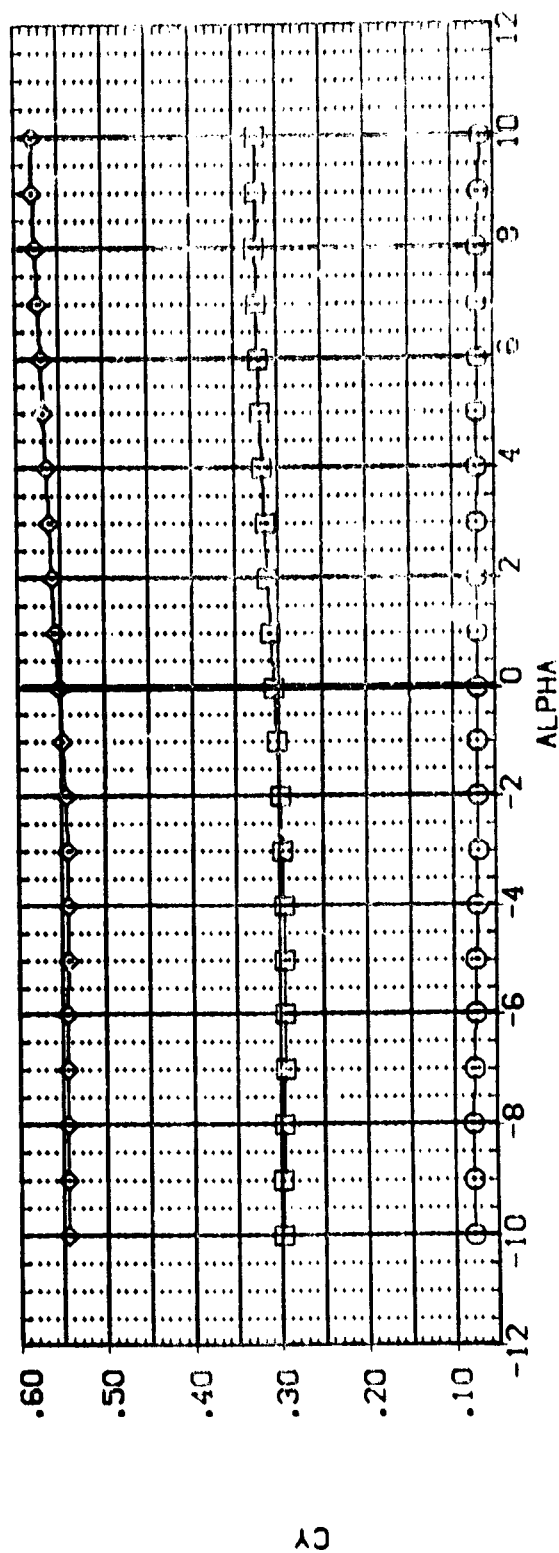
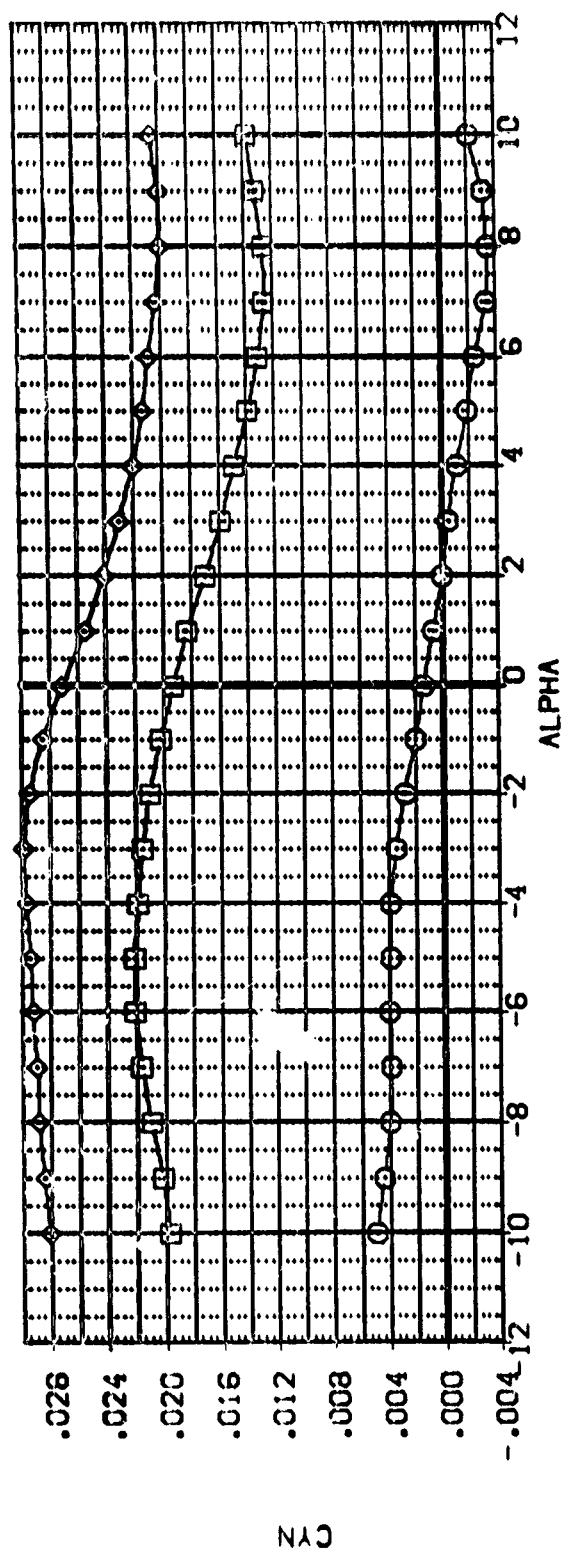
EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 3)

CAMACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{ STL025 }	AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
{ STL027 }	AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB
{ STL029 }	AEDC VA-422(A-57), ORB/ET V/R/IGHT SRB

SABPOS	RAVL	PT-JET	BETA
.300	1.760	.000	.000
.300	1.760	.750	.300
.300	1.760	1.500	.300

REFERENCE INFORMATION:	
ALF	400.0000
REP	115.0000
REP	1790.0000
REP	1290.0000
FJ	2690.0000
SQ	50.0000
N.N.	VS
N.N.	YS
N.N.	ZS

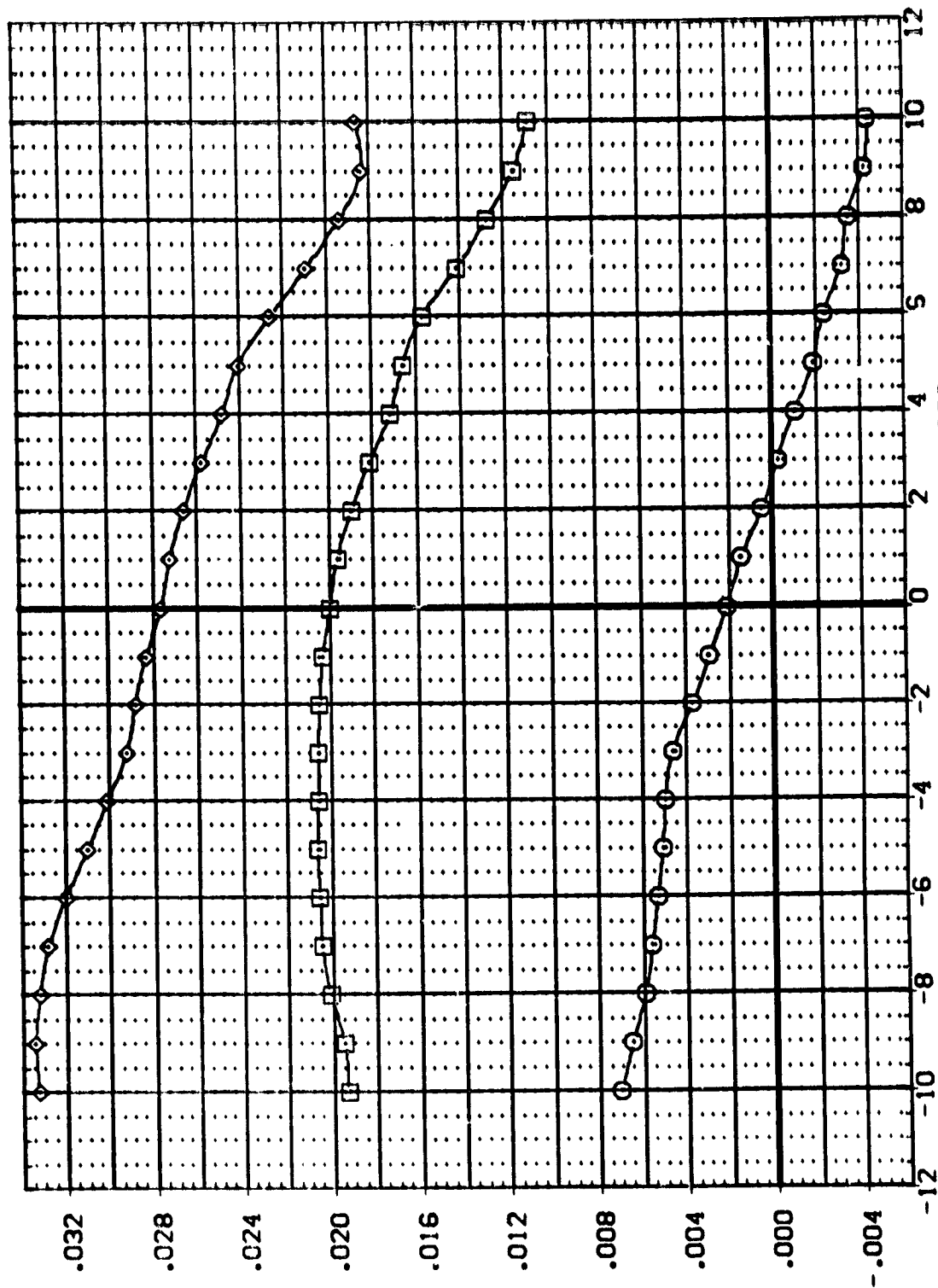


EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 3)

$$[A]_{\text{MACH}} = 4.50$$

33
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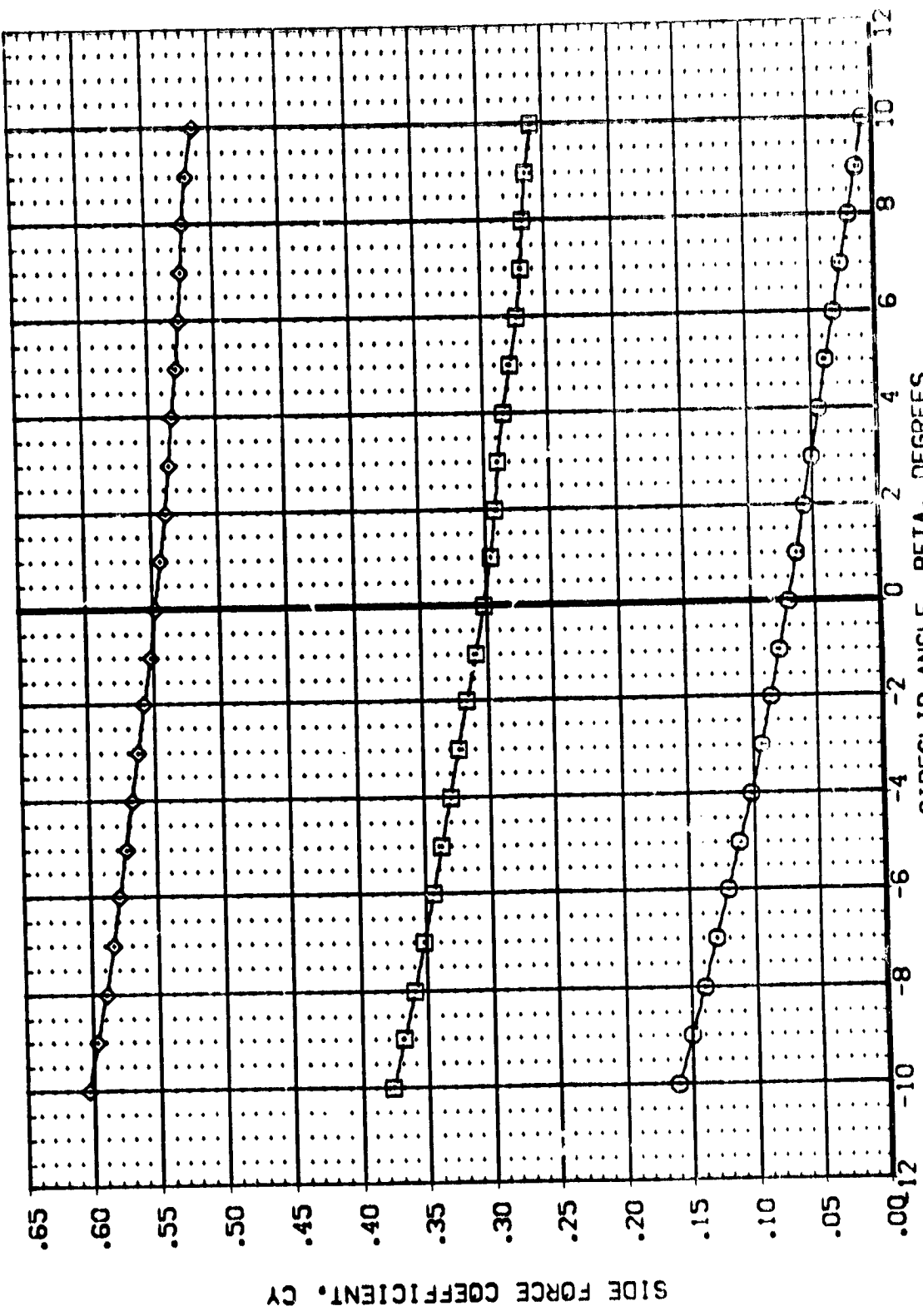
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION	
(STL026)	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	.000	.000	SREF	2690.0000
(STL028)	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	750.000	.000	LREF	1790.3000
(STL030)	AEDC VA-422(1A-57): ORB/ET V/RIGHT SRB	.300	1.760	1500.000	.000	BREF	1790.3000
						YMRP	1167.0000
						ZMRP	.0000
						SCALE	400.0000
							.0100



EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 3)

(A)MACH = 4.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	R/V/L	PT-JET	ALPHA	REFERENCE INFORMATION
[STL026]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.300	1.750	.000	.000	SREF 7680.0000
[STL028]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.300	1.750	.000	.000	LREF 1250.0000
[STL030]	AEDC VA-422(1A-57); ORB/ET V/RIGHT SRB	.300	1.750	.000	.000	BREF 1250.0000
						YREF 1167.0000
						ZREF 400.0000
						SCALE .0100



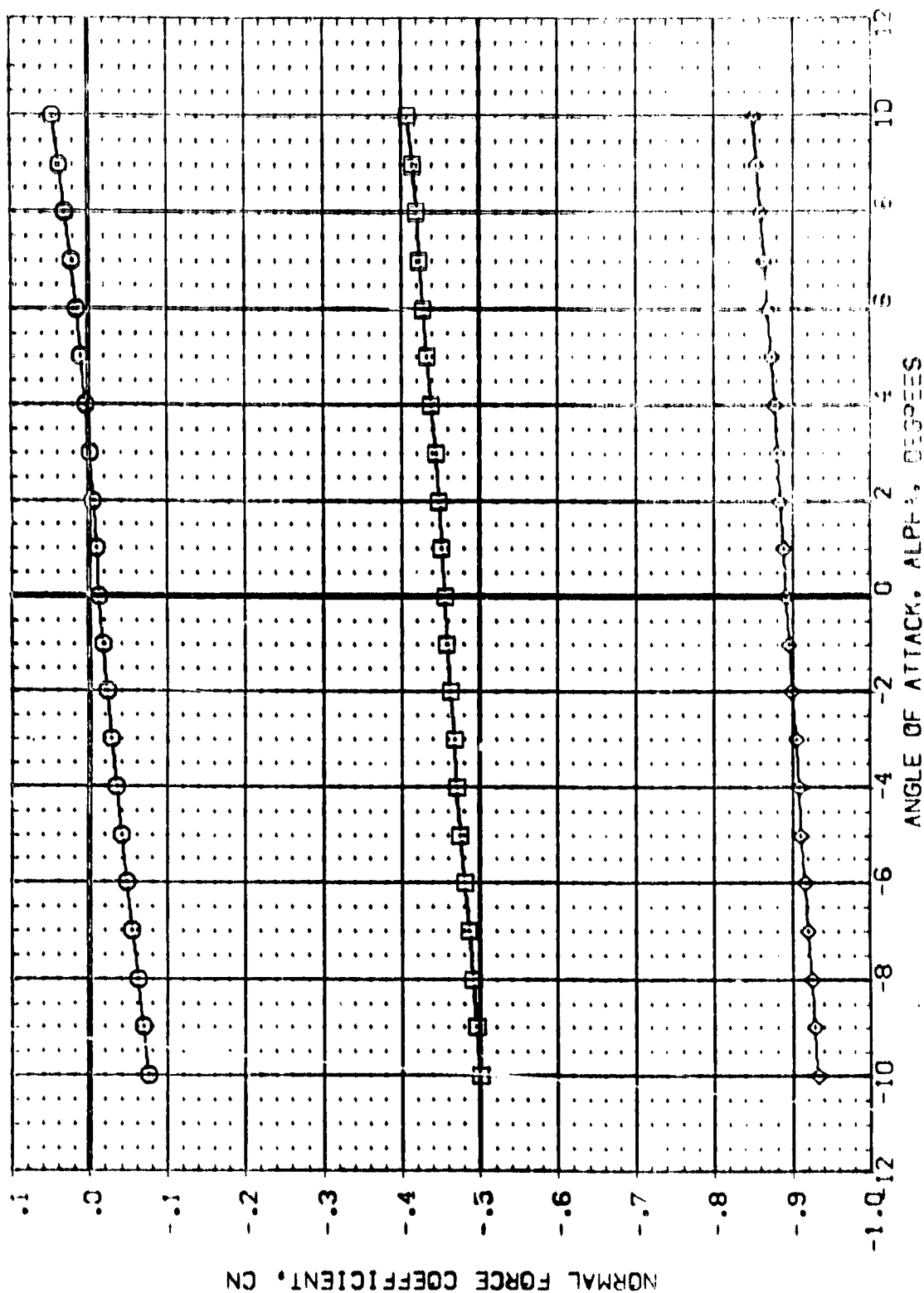
EFFECT OF ONE SRB AND SRB PLUME ON SRB CHARACTERISTICS (POSITION 3)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
1	100% of the data set
2	50% of the data set
3	25% of the data set
4	12.5% of the data set
5	6.25% of the data set
6	3.125% of the data set
7	1.5625% of the data set
8	0.78125% of the data set
9	0.390625% of the data set
10	0.1953125% of the data set
11	0.09765625% of the data set
12	0.048828125% of the data set
13	0.0244140625% of the data set
14	0.01220703125% of the data set
15	0.006103515625% of the data set
16	0.0030517578125% of the data set
17	0.00152587890625% of the data set
18	0.000762939453125% of the data set
19	0.0003814697265625% of the data set
20	0.00019073486328125% of the data set
21	0.000095367431640625% of the data set
22	0.0000476837158203125% of the data set
23	0.00002384185791015625% of the data set
24	0.000011920928955078125% of the data set
25	0.0000059604644775390625% of the data set
26	0.00000298023223876953125% of the data set
27	0.000001490116119384765625% of the data set
28	0.0000007450580596923828125% of the data set
29	0.00000037252902984619140625% of the data set
30	0.000000186264514923095703125% of the data set
31	0.0000000931322574615478515625% of the data set
32	0.00000004656612873077392578125% of the data set
33	0.000000023283064365386962890625% of the data set
34	0.0000000116415321826934814453125% of the data set
35	0.00000000582076609134674072265625% of the data set
36	0.000000002910383045673370361328125% of the data set
37	0.0000000014551915228366851806640625% of the data set
38	0.00000000072759576141834259033203125% of the data set
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43	0.0000000000227373675443232059478759765625% of the data set
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48	0.000000000000710542735760100185871124267578125% of the data set
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54	0.000000000000011102230246251565404236316680908203125% of the data set
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66	0.000000000000000002710505431213761085018631999049854278564453125% of the data set
67	0.0000000000000000013552527156068805425093159995249271392822265625% of the data set
68	0.00000000000000000067762635780344027125465799976246356964111328125% of the data set
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[illegible]

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[illegible]

EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS DURING LIFT-OFF

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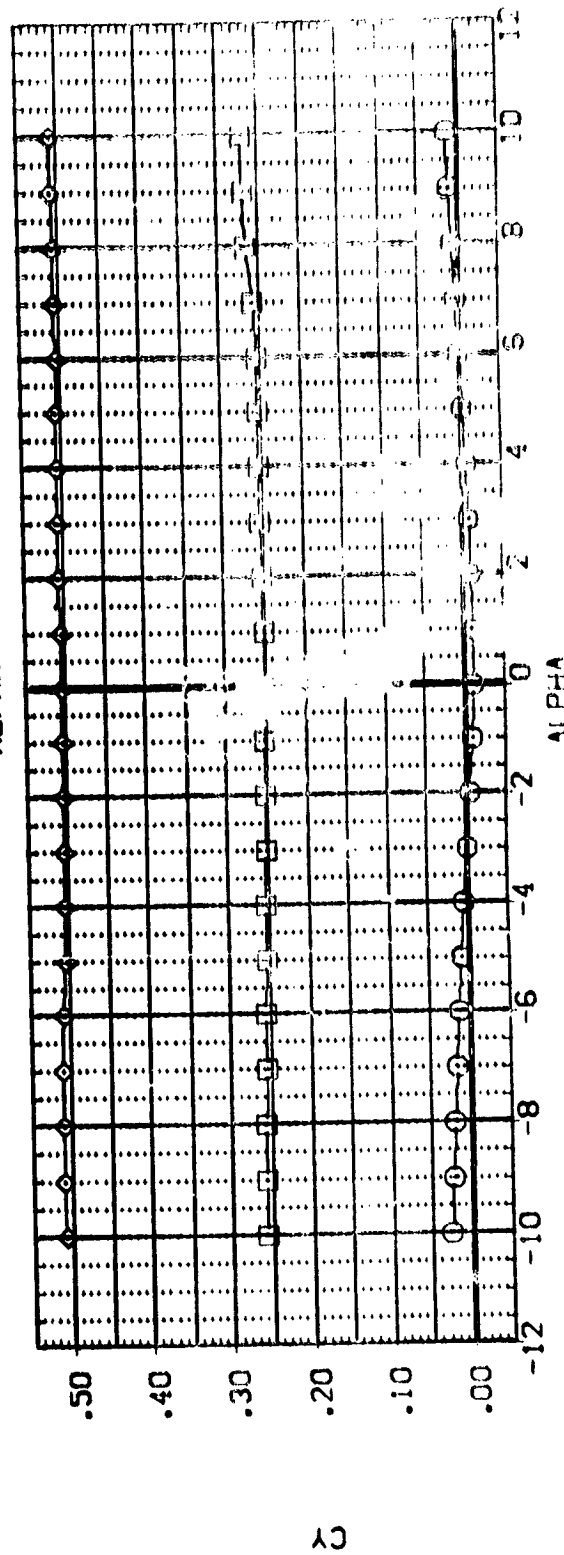
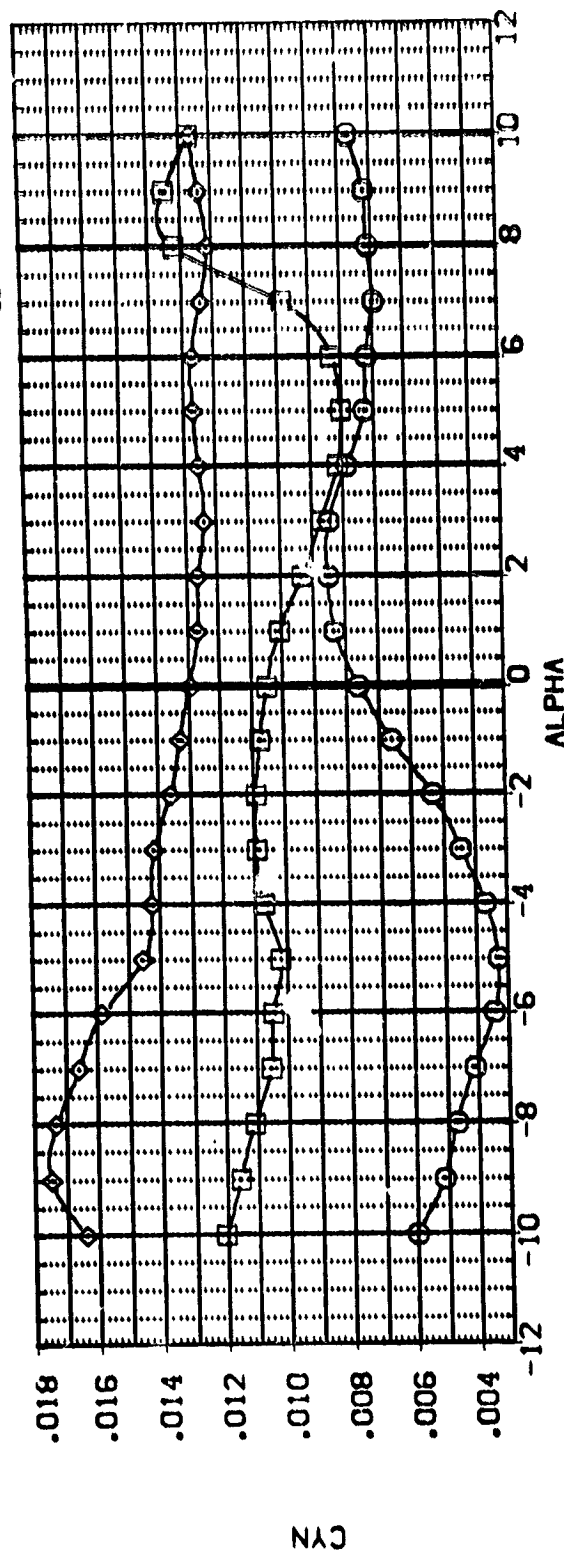
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DATA SET SYMBOL
(STL034)
(STL035)
(STL036)

CONFIGURATION DESCRIPTION
AEDC VA-422(1A-57): ORB/ET V/BOOTH SRB
AEDC VA-422(1A-57): ORB/ET V/BOOTH SRB
AEDC VA-422(1A-57): ORB/ET V/BOOTH SRB

SRBPS RV/L PT-JET BETA
1.100 1.760 .000
1.100 1.760 750.000
1.100 1.760 1500.000

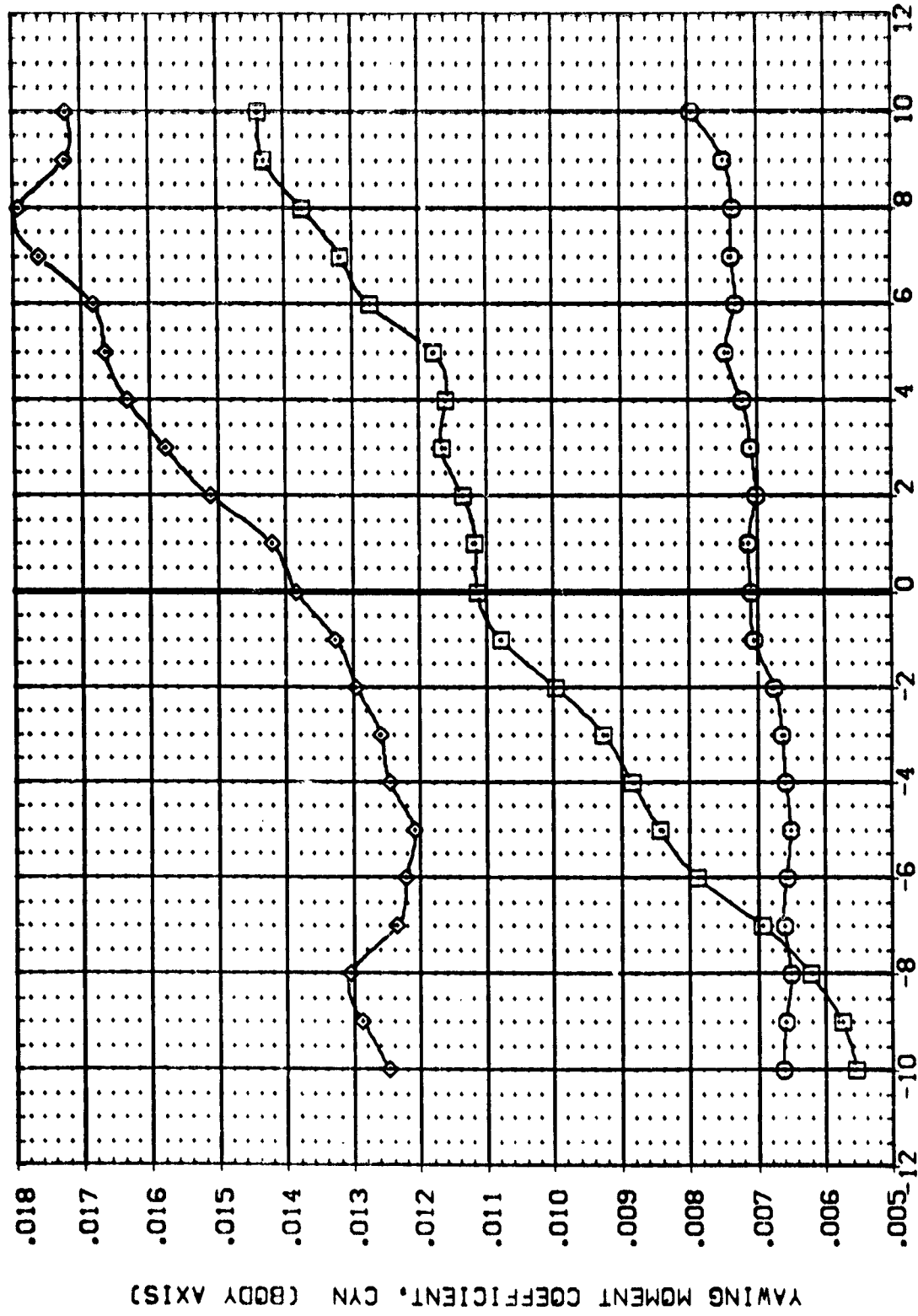
REFERENCE INFORMATION
SRBFT 2650.0000 SO.FT.
LIFT 1750.0000 IN.
SRBFT 1250.0000 IN.
SRBFT 1167.0000 IN.
SRBFT 400.0000 IN.
SCALE .0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 1)

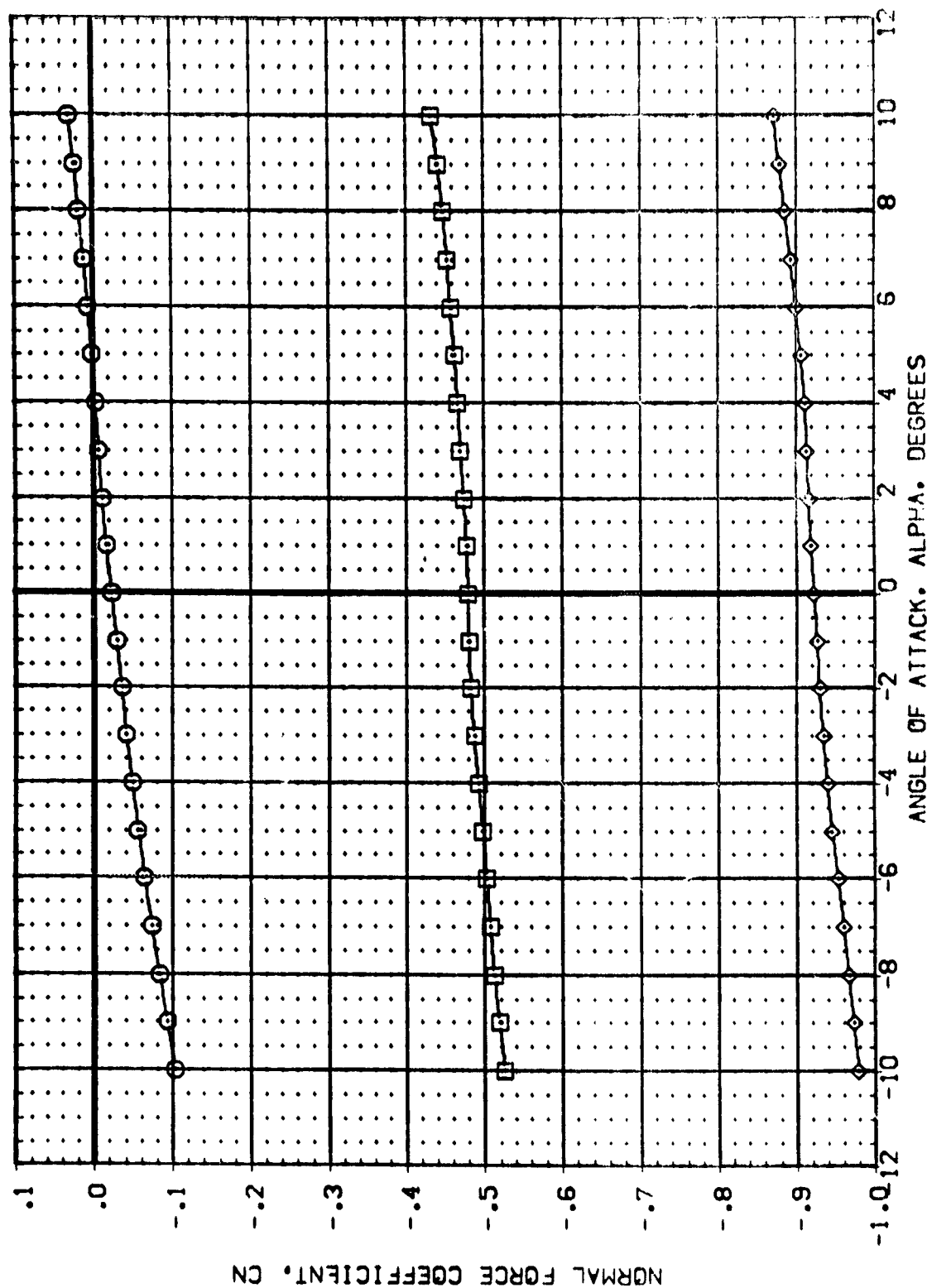
(A)MACH = 4.50

DATA SET SYMBOL: [STLO37] [STLO38] [STLO39]
 CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57), ORB/ET V/BOTH SRB; AEDC VA-422(1A-57), ORB/ET V/BOTH SRB; AEDC VA-422(1A-57), ORB/ET V/BOTH SRB
 SRB POS: 1.100 1.100 1.100
 RV/L: 1.750 1.750 1.750
 PT-JET: .000 .000 .000
 ALPHA: .000 .000 .000
 REFERENCE INFORMATION: SREF 2690.0000 SO. 1.1; LREF 1790.3000 IN. 5; BREF 1790.3000 IN. 5; XPROP 1157.0000 IN. 5; YPROP 400.0000 IN. 5; ZPROP 0.0000 IN. 5; SCALE 0.0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 1)

SRPOS	RM/L	PT-JET	BETA	REFERENCE INFORMATION	SO.FT.
2.200	1.760	.000	.000	SREF	2690.0000
2.200	1.760	.000	.000	LREF	1290.0000
2.200	1.760	.000	.000	BREF	1290.0000
2.200	1.760	.000	.000	WREF	1167.0000
				ZREF	.0000
				SCALE	400.0000
					.0100

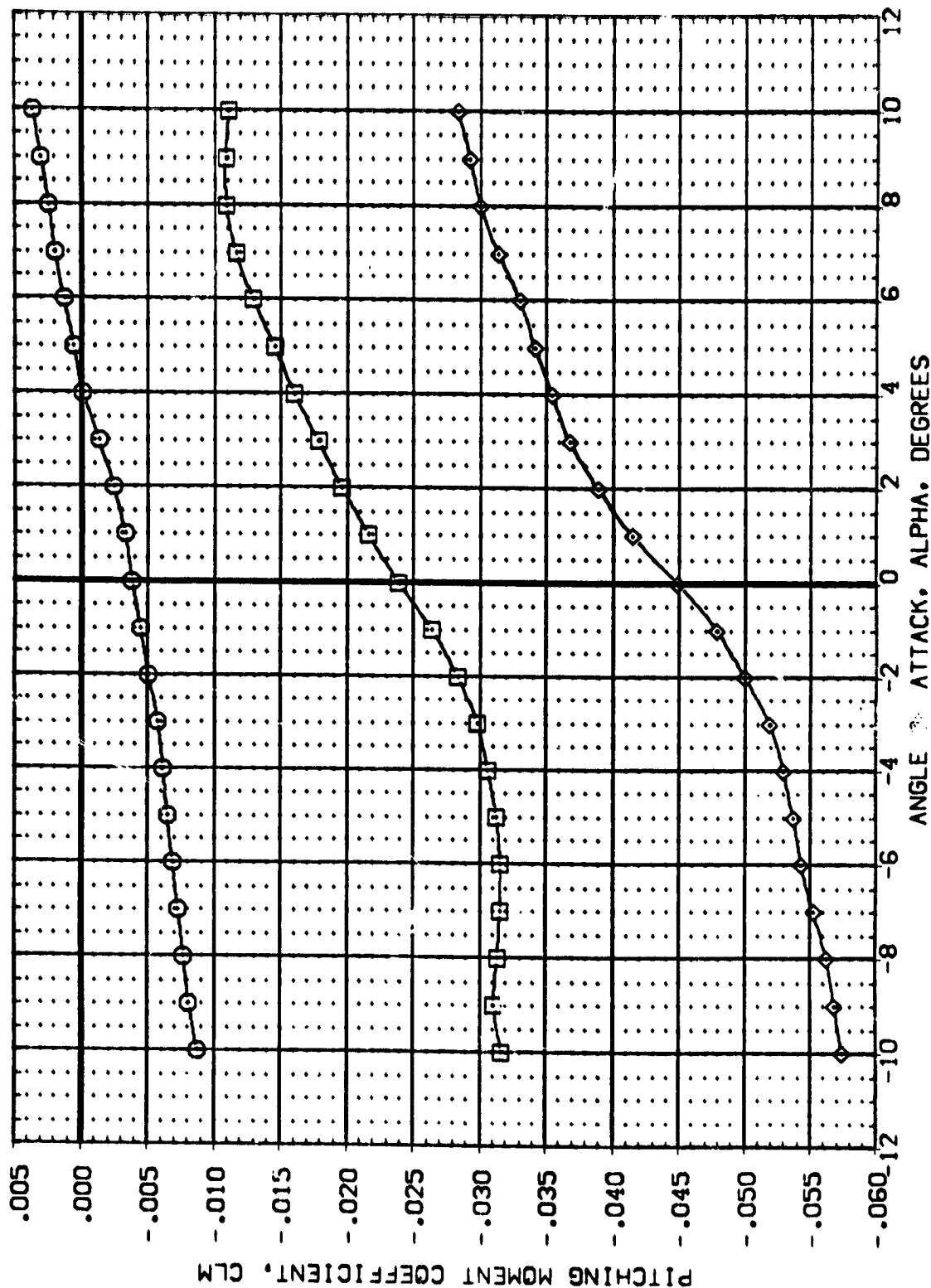


EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

$$[A]^{MAC+} = 4.50$$

35

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	BETA	REFERENCE INFORMATION
(STLO45)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	2.200	1.760	.000	.000	SREF 2690.0000 SQ.FT.
(STLO47)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	2.200	1.760	750.000	.000	LREF 1290.3000 IN.
(STLO49)	AEDC VA-422(1A-57), ORB/ET V/80TH SRB	2.200	1.760	1500.000	.000	BREF 1290.3000 IN.
						XPRP 116".0000 IN. XS
						YPRP .0000 IN. YS
						ZPRP 400.0000 IN. ZS
						SCALE .0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

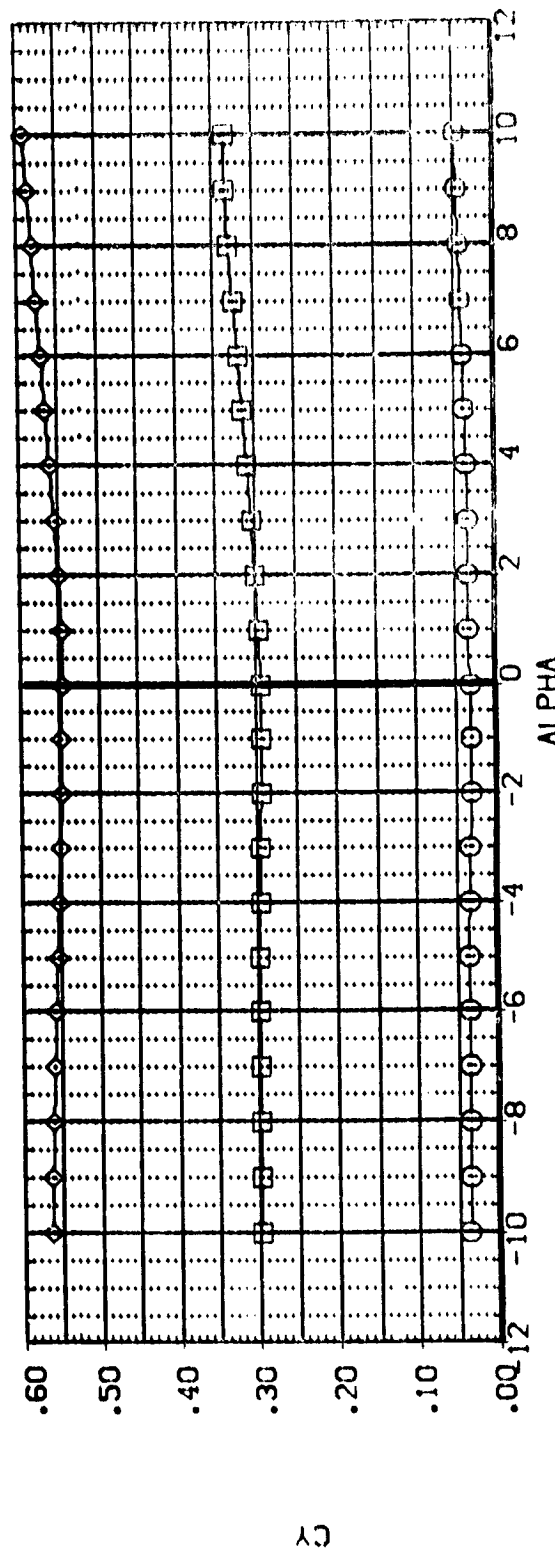
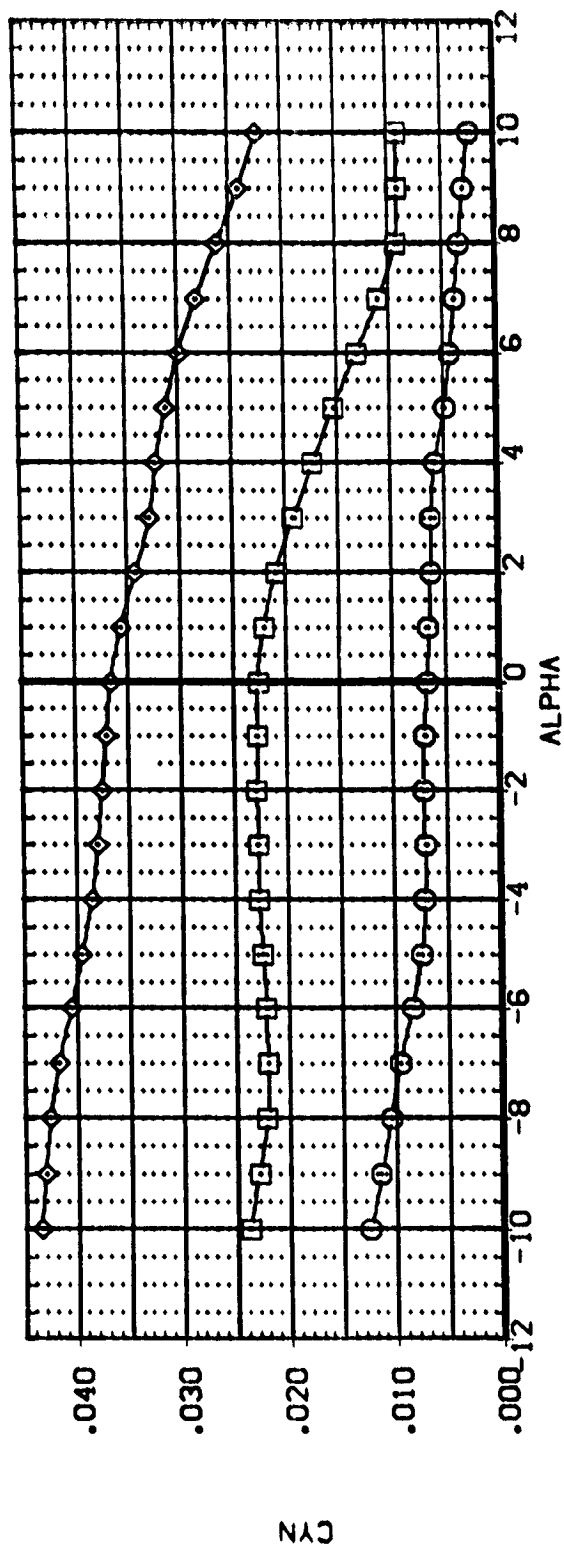
(M)MACH 4.50

PAGE 341

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
1	100% of the data set
2	50% of the data set
3	25% of the data set
4	12.5% of the data set
5	6.25% of the data set
6	3.125% of the data set
7	1.5625% of the data set
8	0.78125% of the data set
9	0.390625% of the data set
10	0.1953125% of the data set
11	0.09765625% of the data set
12	0.048828125% of the data set
13	0.0244140625% of the data set
14	0.01220703125% of the data set
15	0.006103515625% of the data set
16	0.0030517578125% of the data set
17	0.00152587890625% of the data set
18	0.000762939453125% of the data set
19	0.0003814697265625% of the data set
20	0.00019073486328125% of the data set
21	0.000095367431640625% of the data set
22	0.0000476837158203125% of the data set
23	0.00002384185791015625% of the data set
24	0.000011920928955078125% of the data set
25	0.0000059604644775390625% of the data set
26	0.00000298023223876953125% of the data set
27	0.000001490116119384765625% of the data set
28	0.0000007450580596923828125% of the data set
29	0.00000037252902984619140625% of the data set
30	0.000000186264514923095703125% of the data set
31	0.0000000931322574615478515625% of the data set
32	0.00000004656612873077392578125% of the data set
33	0.000000023283064365386962890625% of the data set
34	0.0000000116415321826934814453125% of the data set
35	0.00000000582076609134674072265625% of the data set
36	0.000000002910383045673370361328125% of the data set
37	0.0000000014551915228366851806640625% of the data set
38	0.00000000072759576141834259033203125% of the data set
39	0.000000000363797880709171295166015625% of the data set
40	0.0000000001818989403545856475830078125% of the data set
41	0.00000000009094947017729282379150390625% of the data set
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43	0.0000000000227373675443232059478759765625% of the data set
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51	0.000000000000088817841970012523233890533447265625% of the data set
52	0.0000000000000444089209850062616169452667236328125% of the data set
53	0.00000000000002220446049250313080847263336181640625% of the data set
54	0.000000000000011102230246251565404236316680908203125% of the data set
55	0.0000000000000055511151231257827021181583340541015625% of the data set
56	0.00000000000000277555756156289135105907916702705078125% of the data set
57	0.000000000000001387778780781445675529539583513525390625% of the data set
58	0.0000000000000006938893903907228377647697917567626953125% of the data set
59	0.00000000000000034694469519536141888238489587838134765625% of the data set
60	0.000000000000000173472347597680709441192447939190673828125% of the data set
61	0.0000000000000000867361737988403547205962239695953369140625% of the data set
62	0.00000000000000004336808689942017736029811198479766845703125% of the data set
63	0.000000000000000021684043449710088680149055992398834228515625% of the data set
64	0.0000000000000000108420217248550443400745279961994171142578125% of the data set
65	0.00000000000000000542101086242752217003726399809970855712890625% of the data set
66	0.000000000000000002710505431213761085018631999049854278564453125% of the data set
67	0.0000000000000000013552527156068805425093159995249271392822265625% of the data set
68	0.00000000000000000067762635780344027125465799976246356964111328125% of the data set
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[S1L045]	AEDC VA-422(1A-57).	08B/EI	V/BOTH	SRB
[S1L047]	AEDC VA-422(1A-57).	08B/EI	V/BOTH	SRB
[S1L049]	AEDC VA-422(1A-57).	08B/EI	V/BOTH	SRB

SRPOS	RV/L	PT-JET	BETA	REFERENCE	INFORMATION
2.200	1.760	.000	.000	SREF	2690.0000
2.200	1.760	.000	.000	LREF	1290.3000
2.200	1.760	.000	.000	BREF	1290.3000
2.200	1.760	.000	.000	XREF	1167.0000
				YREF	.0000
				ZREF	400.0000
				SCALE	.0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

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DATA SET SYMBOL: (STLO46) (STLO48) (STLO50)

CONFIGURATION DESCRIPTION: AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
AEDC VA-422(1A-57): ORB/ET V/BOTH SRB
AEDC VA-422(1A-57): ORB/ET V/BOTH SRB

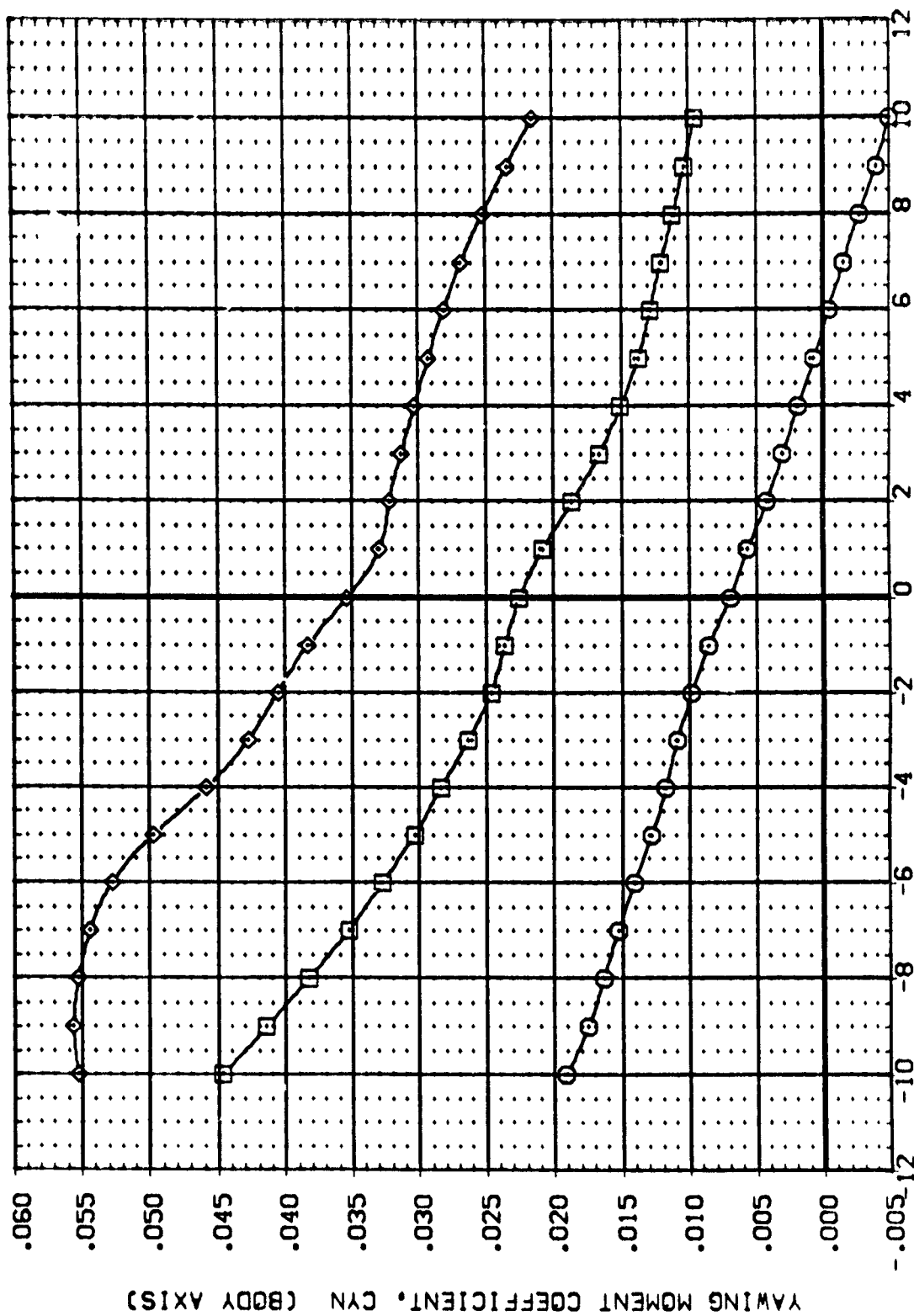
SRB POS: 2.200 2.200 2.200

RV/L: 1.760 1.760 1.760

PT-JET: .000 750.000 1500.000

ALPHA: .000 .000 .000

REFERENCE INFORMATION: SREF: 7650.0000 SD.FT.: 50.FT.
LREF: 1750.3000 IN.: 17.
BREF: 1750.3000 IN.: 17.
XPRP: 1167.0000 IN.: 17.
YPRP: 400.0000 IN.: 17.
ZPRP: 400.0000 IN.: 17.
SCALE: .0100

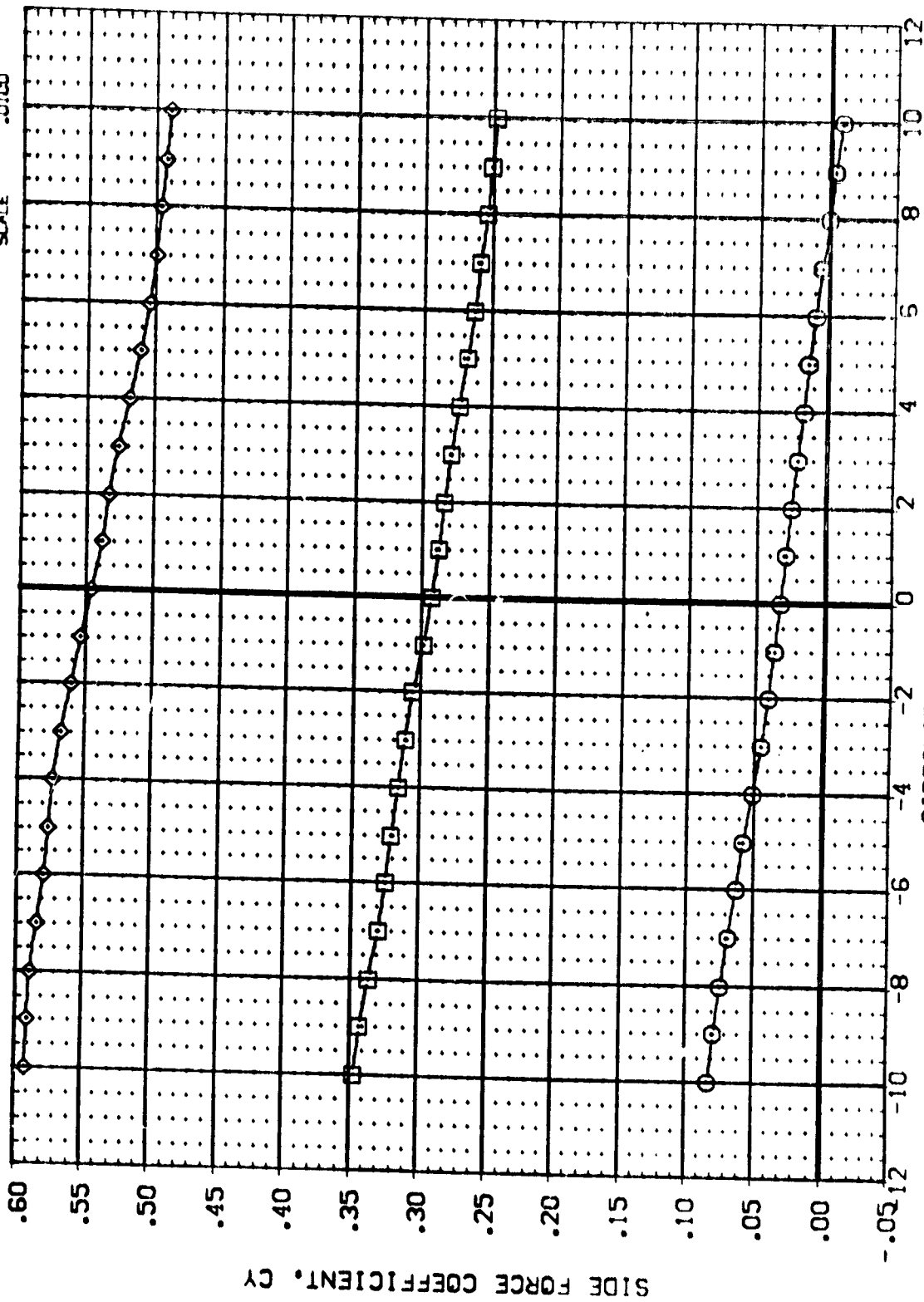


EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (STL046) AEDE VA-422(1A-57), ORB/ET V/BOTH SRB
 (STL048) AEDE VA-422(1A-57), ORB/ET V/BOTH SRB
 (STL050) AEDE VA-422(1A-57), ORB/ET V/BOTH SRB

SRB POS RV/L PT-JET ALPHA
 2,200 1.760 .000 .000
 2,200 1.760 750.000 .000
 2,200 1.760 1500.000 .000

REFERENCE INFORMATION:
 SREF 7690.0000 50.00
 LREF 1290.3000 10.00
 BREF 1290.3000 10.00
 XREF 1167.0000 10.00
 YREF 400.0000 10.00
 ZREF 400.0000 10.00
 SCALE .0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

CAUTION 4.50

0.31 3.11

DATA SET SYMBOL: [S] [L046] [S] [L048] [S] [L050]

CONFIGURATION DESCRIPTION:
 AEDC VA-422(A-57), ORB/ET V/80TH SRB
 AEDC VA-422(A-57), ORB/ET V/80TH SRB
 AEDC VA-422(A-57), ORB/ET V/80TH SRB

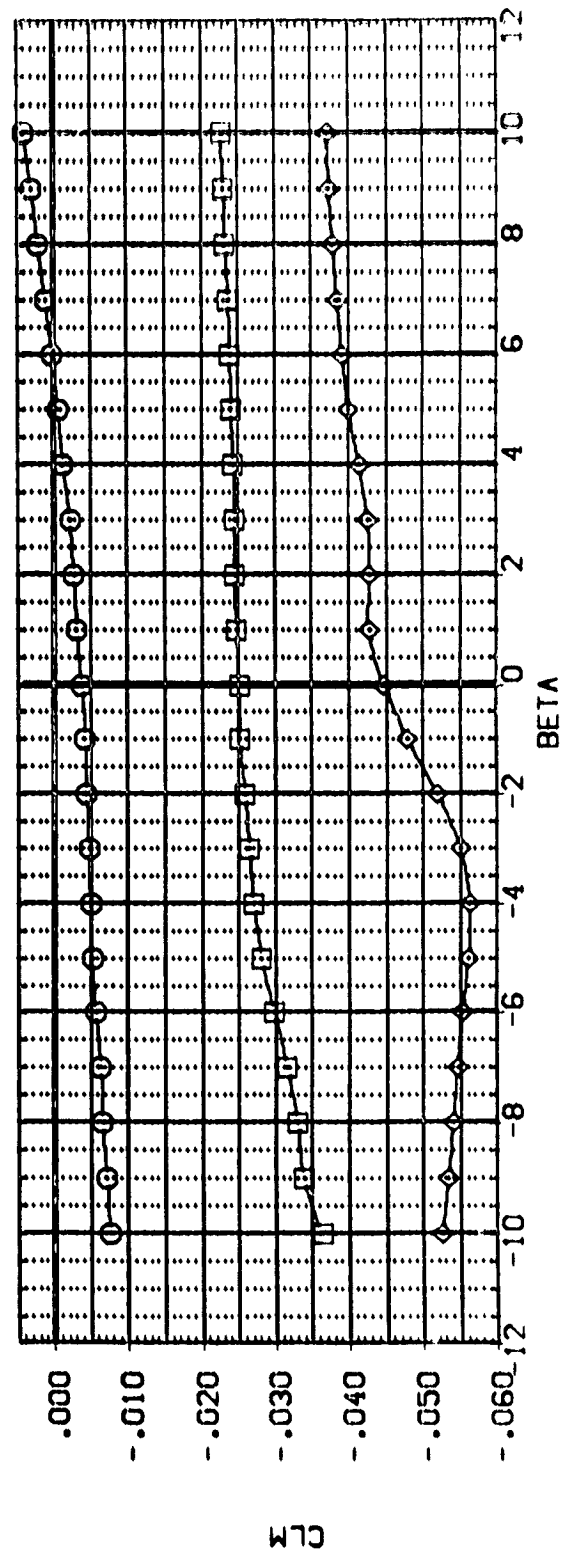
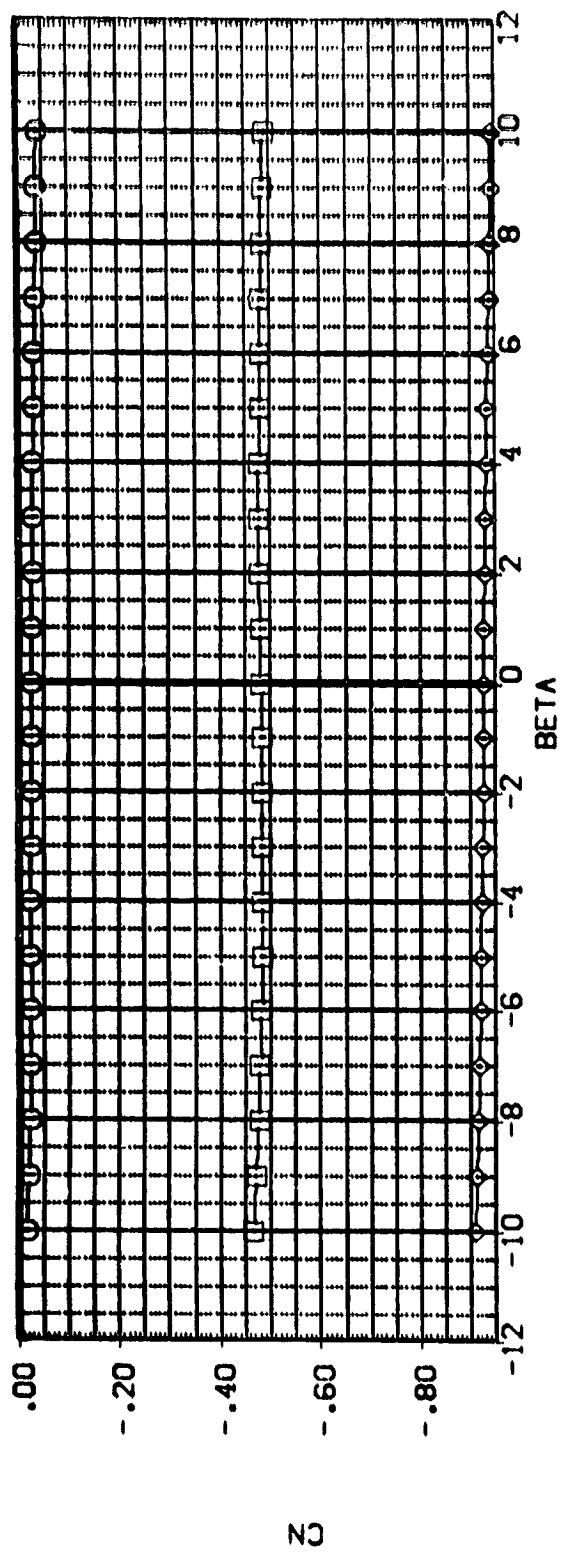
SRB POS: 2.20C 2.20C 2.20C

RVL: 1.750 1.750 1.750

PT-JET: .000 .000 .000

ALPHA: .000 .000 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 190.0000
 SREF: 190.0000
 LREF: 116.0000
 VREF: 400.0000
 ZREF: 400.0000
 SCALE: .0100

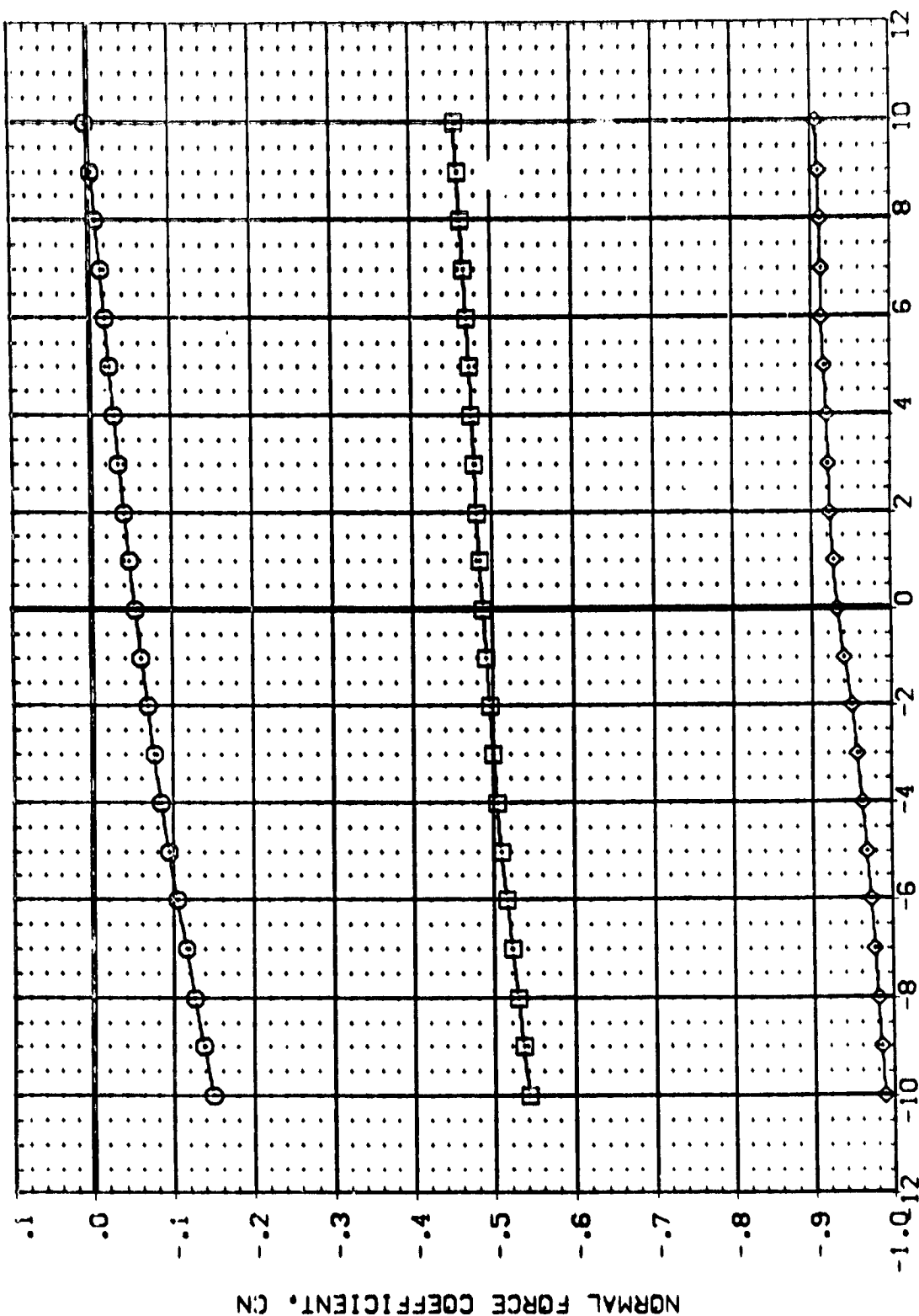


EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 2)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [STLOS6] AEDC VA-422(A-57), ORB/ET V/BOOTH SRB
 [STLOS8] AEDC VA-422(A-57), ORB/ET V/BOOTH SRB
 [STLOS0] AEDC VA-422(A-57), ORB/ET V/BOOTH SRB

SRRPOS R/V/L PI-JET BETA
 3.300 1.760 .000
 3.370 1.760 750.000
 3.300 1.760 1500.000

REFERENCE INFORMATION
 SREF 2690.0000 50.00
 RREF 1790.3000 100.00
 SREF 1790.3000 100.00
 YPRP 1167.0000 100.00
 ZPRP 400.0000 100.00
 SCALE .0100

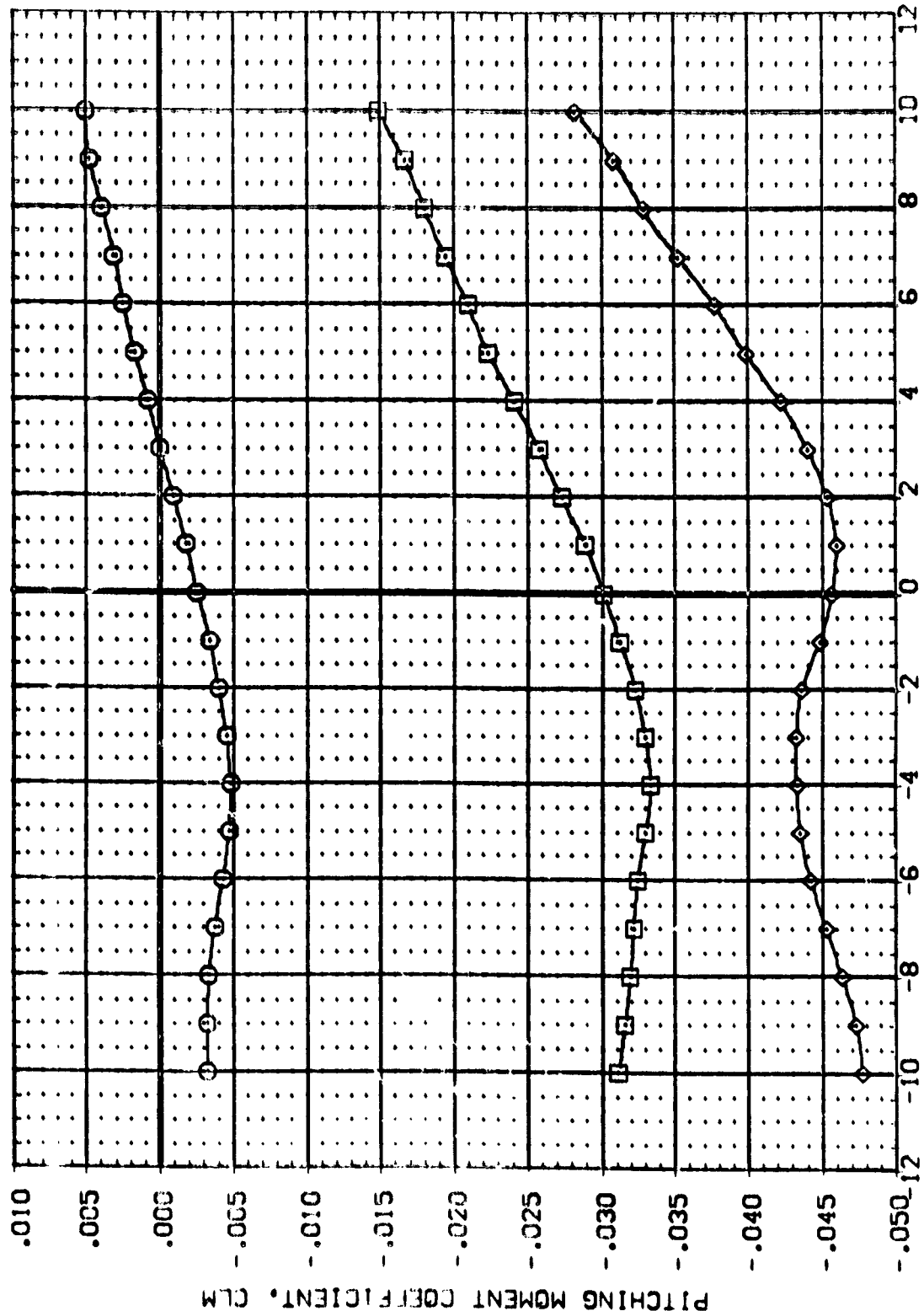


EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [STL056] AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 [STL058] AEDC VA-422(1A-57); ORB/ET V/80TH SRB
 [STL060] AEDC VA-422(1A-57); ORB/ET V/80TH SRB

SRBP05 RVL PT-JET BETA
 3.300 1.760 .000
 3.300 1.760 750.000
 3.300 1.760 1500.000

REFERENCE INFORMATION
 SREF 1590.0000 S.F.
 LREF 150.0000 IN.
 BREF 150.0000 IN.
 XPRP 115.0000 IN.
 YPRP 400.0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0100



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

(A)MAG. 4.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[STL056] AEDC VA-422(1A-57), ORB/ET V/BOOTH SRB SREF 2530.0000 SO.F1.

[STL058] AEDC VA-422(1A-57), ORB/ET V/BOOTH SRB LREF 250.0000 IN: XS

[STL060] AEDC VA-422(1A-57), ORB/ET V/BOOTH SRB BREF 250.0000 IN: XS

SRBPOS RWL PT-JET BETA SCALE

3.300 1.760 .000 .000 400.0000

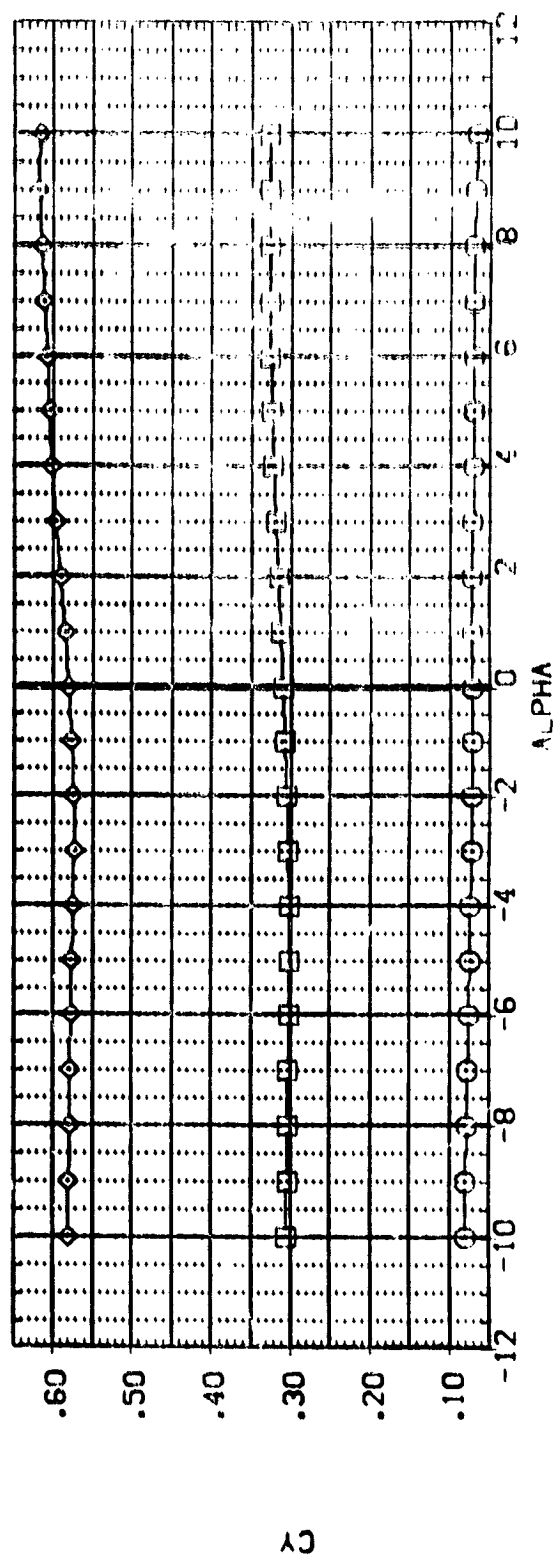
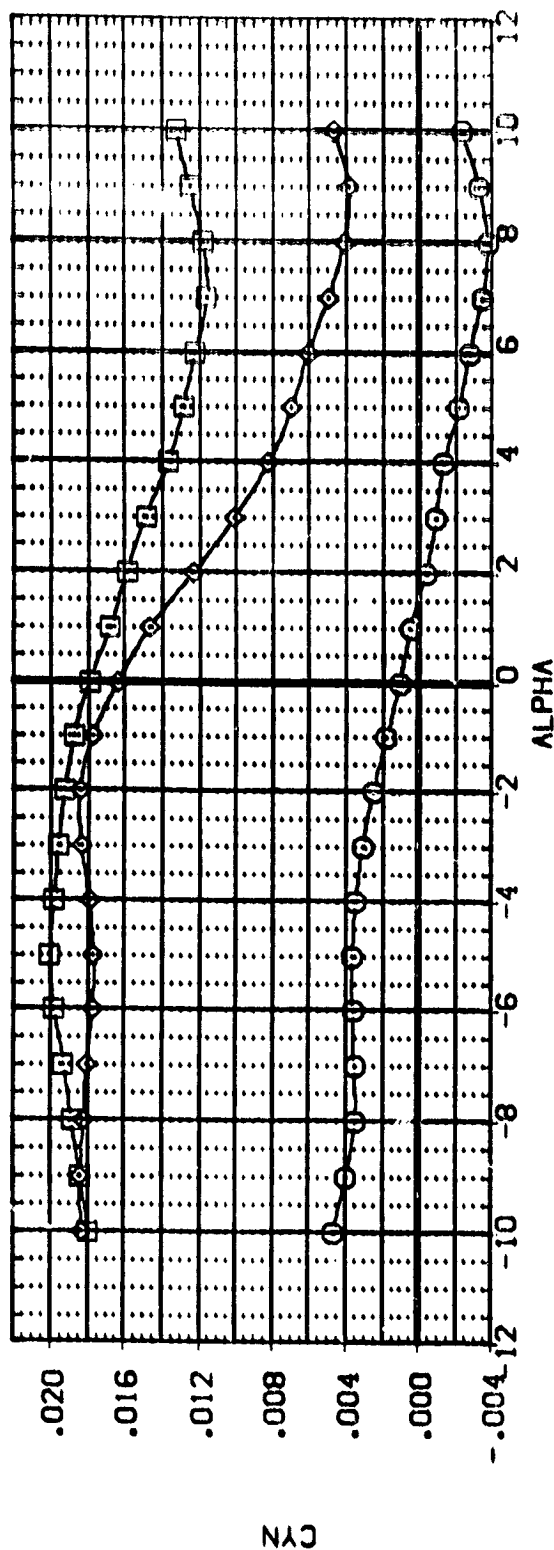
3.300 1.760 750.000 .000 400.0000

3.300 1.760 1500.000 .000 400.0000

VRBP 1.67.0000 IN: YS

ZRBP 1.67.0000 IN: YS

SCALE 400.0000 IN: YS



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

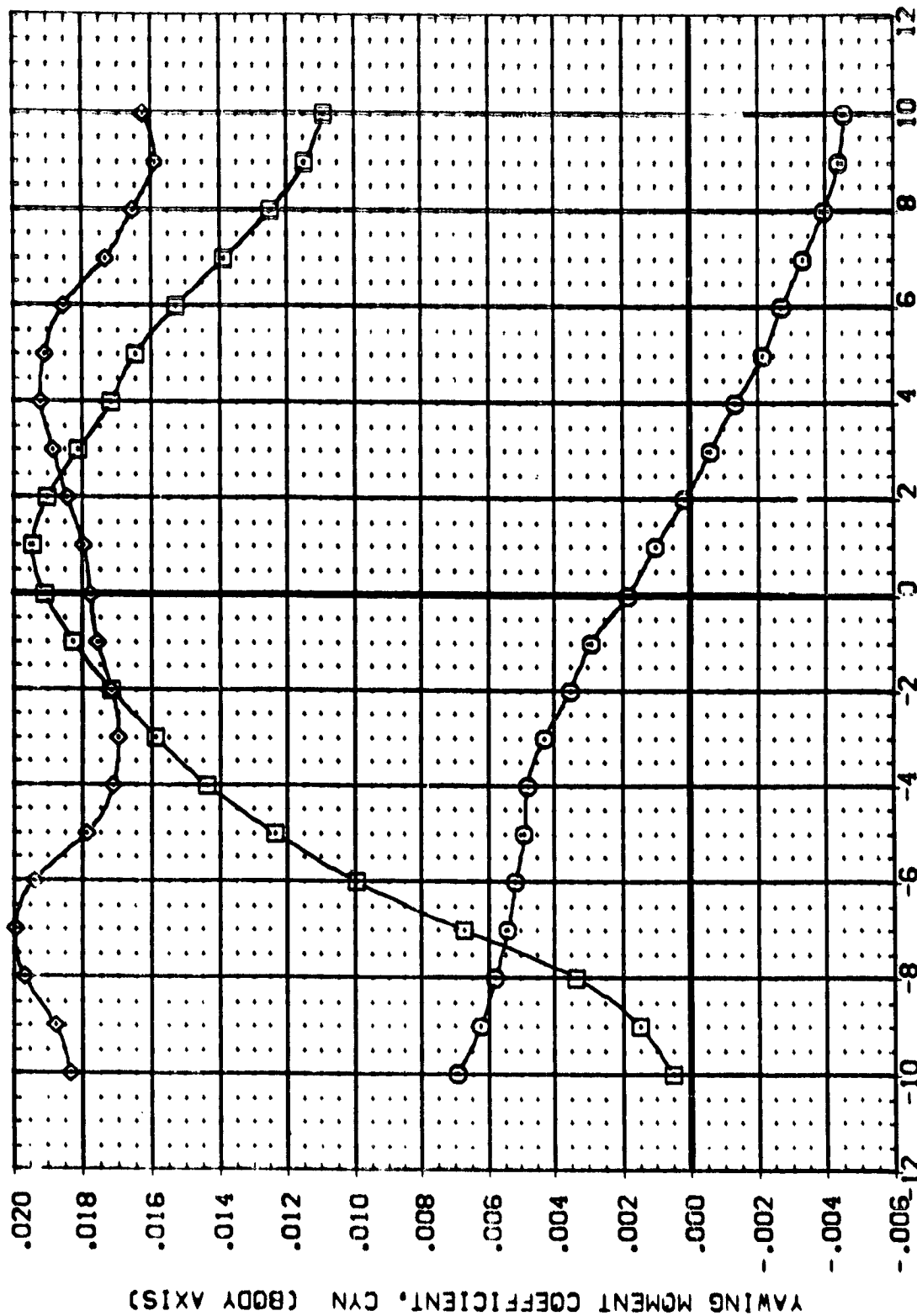
(A)MACH 4.50

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[S1L057]	<input type="checkbox"/>	AEDC VA-422(1A-57).	ORR/EI	V/BOOTH	SRR
[S1L059]	<input type="checkbox"/>	AEDC VA-422(1A-57).	ORR/EI	V/BOOTH	SRR
[S1L061]	<input checked="" type="checkbox"/>	AEDC VA-422(1A-57).	ORR/EI	V/BOOTH	SRR

SCREWS RWZ PT-JET ALPHA

S7	0000'00"	37°25'
N4	0000'00"	08°-7'
N4	0000'49"	08°-4'
N4	0000'26"	13°08'
N4	0000'06"	13°01'
N4	0000'00"	13°05'



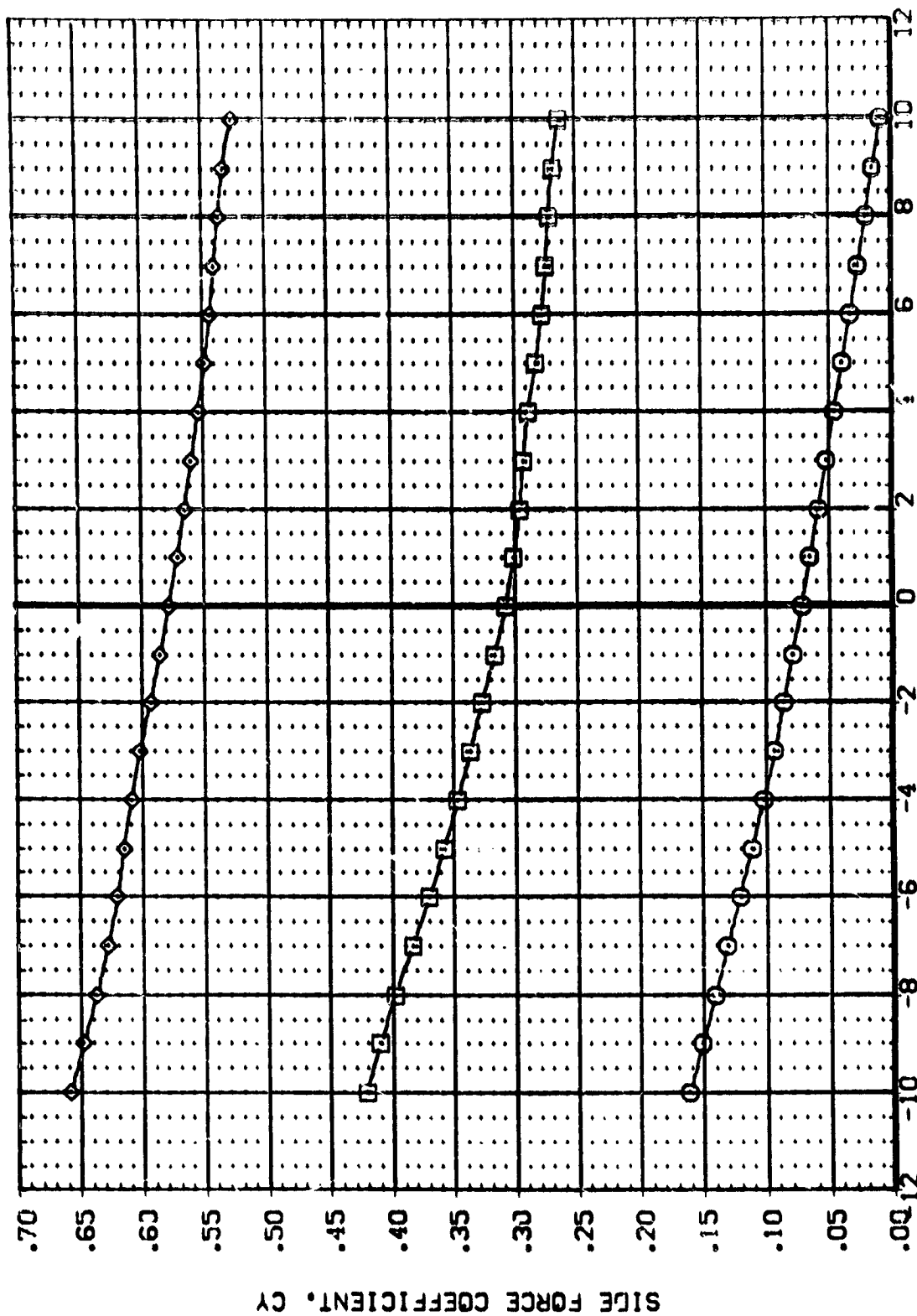
SIDESLIP ANGLE. BETA. DEGREES

EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

1.50
[AJMAH]

PAGE 3:9

STATUS	RVL	PI-JET	ALPHA	REFERENCE INFORMATION	NO.
3,300	1,750	.00	.00	REF	2830,000
3,300	1,750	750,000	.00	REF	1750,300
3,300	1,750	150,000	.00	REF	1750,300
				REF	1,15
				REF	1000
				REF	1000
				REF	400,0000
				SCALE	.0100

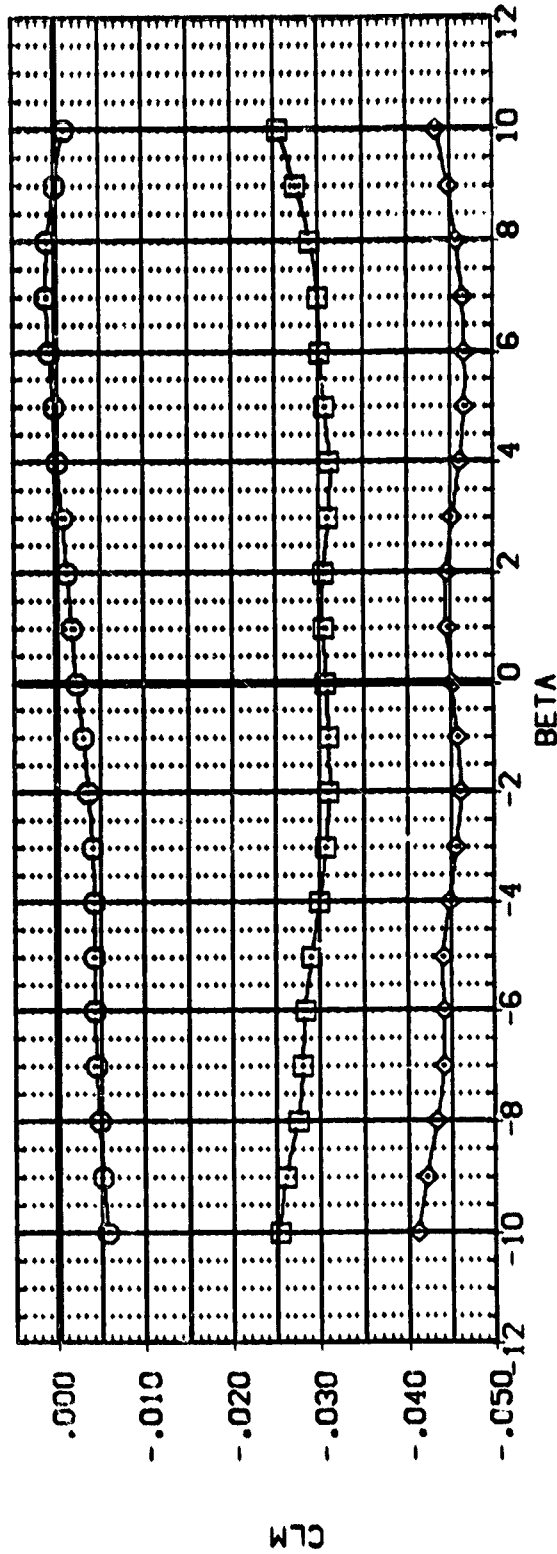
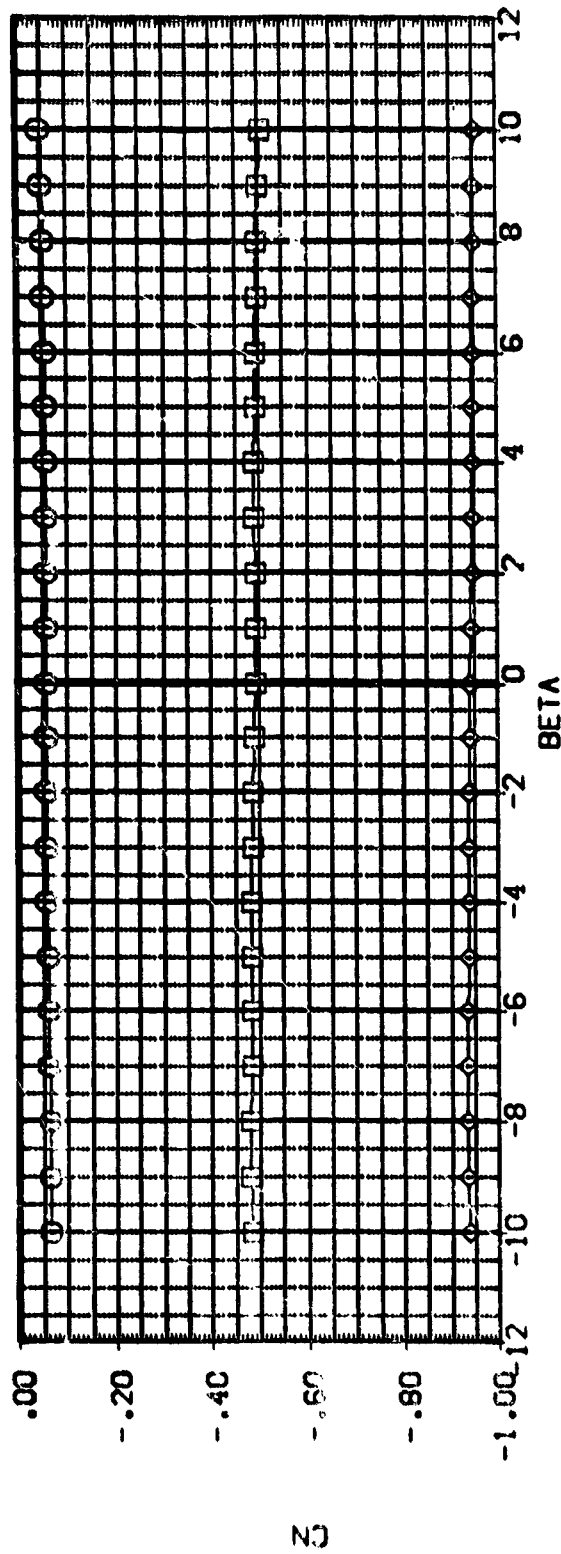


EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

(A)NACH - 4.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRB POS	RN/L	PT-JET	ALPHA	REFERENCE INFORMATION			
(STL057)	AEDC VA-422(1A-57); SRB/ET V/BOTH SRB	3.300	1.750	.000	.000	SREF	2690.0000	50.FT.	
(STL059)	AEDC VA-422(1A-57); SRB/ET V/BOTH SRB	3.300	1.750	750.000	.000	LREF	1290.3000	IN.	
(STL061)	AEDC VA-422(1A-57); SRB/ET V/BOTH SRB	3.300	1.750	1500.000	.000	BREF	1290.3000	IN.	YS
						XREF	1167.0000	IN.	YS
						YREF	.0000	IN.	ZS
						ZREF	400.0000	IN.	ZS
						SCALE	.0100		



EFFECT OF TWO SRB AND SRB PLUMES ON SRB CHARACTERISTICS (POSITION 3)

(A)MACH = 4.50

TABULATED SOURCE DATA

Plotted data tabulations are
available from the DMS on request.

DATE 29 OCT 74

PAGE 1

AEDC VA-422(1A-37), ISOLATED ORBIT

(RTL001) (18 FEB 74)

REFERENCE DATA

REF = 2490.0000 SQ. FT. 1000 = 1000.0000 IN. XT
REF = 1290.0000 IN. 1000 = 1000.0000 IN. YT
REF = 1290.0000 IN. 2000 = 447.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

BETA = .000 RV/L = 1.760

RUN NO. 88/ 0 RV/L = 1.80 GRADIENT INTERVAL = -3.00/ 3.00

MAOR	ALPHA	BETA	ON	CLM	CY	CIN	CEL	CA
4.500	-10.000	.00029	-.31148	.10395	-.00456	.00114	.00040	.23321
4.500	-9.000	.00317	-.28476	.09771	-.00411	.00097	.00058	.23000
4.500	-8.000	.00496	-.26424	.09259	-.00368	.00065	.00044	.22362
4.500	-7.000	.00499	-.23799	.08548	-.00353	.00047	.00037	.21919
4.500	-6.000	.00499	-.21019	.07735	-.00299	.00011	.00023	.21300
4.500	-5.000	.00481	-.18285	.06912	-.00341	.00026	.00016	.20811
4.500	-4.000	.00479	-.15903	.06326	-.00294	-.00004	.00016	.20090
4.500	-3.000	.00462	-.12963	.05236	-.00292	-.00029	.00012	.19350
4.500	-2.000	.00470	-.10377	.04420	-.00240	-.00046	.00003	.18993
4.500	-1.000	.00457	-.07821	.03644	-.00243	-.00053	.00003	.18473
4.500	.000	.00403	-.05465	.02974	-.00249	-.00059	.00004	.18066
4.500	1.000	.00368	-.03232	.02592	-.00263	-.00019	.00003	.17608
4.500	2.000	.00332	-.00967	.01805	-.00309	-.00003	.00001	.17326
4.500	3.000	.00317	.01257	.01189	-.00360	.00017	-.00012	.17317
4.500	4.000	.00310	.03568	.00493	-.00368	.00012	-.00021	.17064
4.500	5.000	.00342	.05876	-.00206	-.00414	.00009	-.00026	.16878
4.500	6.000	.00422	.08051	-.00897	-.00498	.00005	-.00032	.16323
4.500	7.000	.00560	.10557	-.01666	-.00576	-.00026	-.00024	.16250
4.500	8.000	.00651	.12947	-.02408	-.00623	-.00053	-.00011	.15941
4.500	9.000	.00635	.15375	-.03275	-.00685	-.00029	-.00013	.15651
4.500	10.000	.00606	.18200	-.04069	-.00992	-.00079	-.00006	.15428
	GRADIENT	-.00020	.02392	-.00694	-.00011	.00002	-.00004	-.00082

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-37), ISOLATED ORD/ET

07TL0020 (19 FEB 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 RVL = 1.760

RUN NO. 86/ 0 RVL = 1.88 GRADIENT INTERVAL = -.3.00/ 3.00

MAOH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13674	-.06077	.02194	.30640	-.09666	.03312	.20290
4.500	-9.000	-.12954	-.06171	.02393	.27066	-.09663	.03136	.19935
4.500	-8.000	-.12271	-.06412	.02644	.23684	-.07559	.02776	.19608
4.500	-7.000	-.11640	-.06621	.02865	.20362	-.06487	.02399	.19310
4.500	-6.000	-.11023	-.06932	.03131	.17100	-.05477	.02038	.19009
4.500	-5.000	-.10621	-.07153	.03235	.13835	-.04490	.01668	.18742
4.500	-4.000	-.10187	-.07324	.03370	.10620	-.03421	.01277	.18474
4.500	-3.000	-.09690	-.07543	.03541	.07546	-.02469	.00945	.18219
4.500	-2.000	-.09284	-.07596	.03616	.04486	-.01519	.00386	.18093
4.500	-1.000	-.08906	-.07472	.03571	.01429	-.00398	.00227	.17913
4.500	.000	-.08607	-.07459	.03588	-.01493	.00276	-.00099	.17927
4.500	1.000	-.08274	-.07575	.03732	-.04533	.01210	-.00447	.18146
4.500	2.000	-.08003	-.07569	.03777	-.07333	.02112	-.00793	.18323
4.500	3.000	-.07862	-.07439	.03700	-.10693	.03036	-.01161	.18515
4.500	4.000	-.07726	-.07417	.03672	-.13762	.03936	-.01477	.18693
4.500	5.000	-.07759	-.07376	.03547	-.16820	.04796	-.01801	.18839
4.500	6.000	-.07638	-.07229	.03345	-.19934	.05698	-.02119	.18977
4.500	7.000	-.07817	-.07150	.03232	-.23228	.06728	-.02456	.19152
4.500	8.000	-.07803	-.07014	.03103	-.26697	.07860	-.02845	.19402
4.500	9.000	-.07774	-.06922	.03006	-.30161	.08916	-.03201	.19663
4.500	10.000	-.07849	-.06891	.02880	-.33748	.10068	-.03618	.19877
4.500	GRADIENT	.00298	-.00011	.00033	-.03050	.00922	-.00346	.00027

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AEDC VA-422(1A-57), ISOLATED ORB/ET

(RTL003) (18 FEB 74)

REFERENCE DATA

REF = 2680.0000 99. FT. XREF = 1052.0000 IN. XT
 UREF = 1290.3000 IN. YREF = .0000 IN. YT
 VREF = 1290.3000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0170

PARAMETRIC DATA

BETA = .000 RV/L = 4.780

RUN NO. 99/ 0 RV/L = 4.82 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CT	CYN	COL	CA
4.500	-10.000	.00298	-.31075	.10250	-.00037	-.00046	.00044	.22937
4.500	-9.000	.00393	-.28767	.09712	-.00004	-.00075	.00041	.22550
4.500	-8.000	.00492	-.26422	.09207	-.00027	-.00077	.00032	.22030
4.500	-7.000	.00624	-.23976	.08613	-.00039	-.00069	.00033	.21489
4.500	-6.000	.00713	-.21304	.07865	-.00042	-.00100	.00031	.20979
4.500	-5.000	.00751	-.18987	.07075	-.00070	-.00091	.00043	.20334
4.500	-4.000	.00821	-.15933	.06264	-.00114	-.00090	.00032	.19826
4.500	-3.000	.00935	-.13382	.05481	-.00192	-.00055	.00022	.19211
4.500	-2.000	.00868	-.10861	.04694	-.00233	-.00027	.00023	.18619
4.500	-1.000	.00941	-.08335	.03897	-.00246	-.00031	.00027	.18109
4.500	.000	.01004	-.05948	.03186	-.00266	-.00031	.00022	.17703
4.500	1.000	.01049	-.03627	.02321	-.00281	-.00030	.00015	.17368
4.500	2.000	.01028	-.01349	.01906	-.00287	-.00024	.00009	.17056
4.500	3.000	.01061	.00972	.01248	-.00311	-.00020	.00000	.16809
4.500	4.000	.01132	.03353	.00524	-.00369	.00000	-.00009	.16591
4.500	5.000	.01202	.06691	-.00211	-.00410	.00009	-.00008	.16352
4.500	6.000	.01361	.08063	-.00973	-.00442	.00001	-.00007	.16109
4.500	7.000	.01325	.10475	-.01702	-.00496	.00002	-.00015	.15825
4.500	8.000	.01710	.13049	-.02311	-.00537	-.00007	-.00016	.15563
4.500	9.000	.01863	.15750	-.03378	-.00536	-.00031	-.00008	.15341
4.500	10.000	.01996	.18306	-.04262	-.00510	-.00063	.00006	.15134
4.500		.00040	.02412	-.00718	-.00029	.00009	-.00003	-.00399

GRADIENT

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AEDC VA-422(1A-57), ISOLATED ORBIT

(RTL004) (18 FEB 74)

REFERENCE DATA

REF = 2690.0000 90. FT. XPRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YPRP = .0000 IN. YT
 RREF = 1290.3000 IN. ZPRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 RM/L = 4.760

RUN NO. 90/ 0 RM/L = 4.85 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CY	CTN	CEL	CA
4.500	-10.000	-.33065	-.06237	.02110	.30596	-.09704	.03455	.19935
4.500	-9.000	-.31825	-.06465	.02229	.28969	-.09476	.03048	.19638
4.500	-8.000	-.30556	-.06672	.02347	.25530	-.07323	.02871	.19314
4.500	-7.000	-.29295	-.06926	.02790	.20164	-.06208	.02299	.19003
4.500	-6.000	-.27727	-.07088	.03045	.17332	-.05284	.01977	.18696
4.500	-5.000	-.26581	-.07205	.03228	.13935	-.04363	.01615	.18308
4.500	-4.000	-.25819	-.07418	.03363	.10731	-.03414	.01247	.18286
4.500	-3.000	-.24937	-.07680	.03576	.07612	-.02465	.00920	.18022
4.500	-2.000	-.24277	-.07912	.03741	.04596	-.01507	.00590	.17677
4.500	-1.000	-.23813	-.07909	.03775	.01527	-.00385	.00247	.17617
4.500	.000	-.23432	-.07937	.03829	-.01512	.00317	-.00099	.17662
4.500	1.000	-.23211	-.07972	.03886	-.04593	.01220	-.00447	.18023
4.500	2.000	-.23372	-.07915	.03926	-.07573	.02090	-.00767	.18136
4.500	3.000	-.23731	-.07813	.03718	-.10639	.03010	-.01110	.18350
4.500	4.000	-.23978	-.07644	.03573	-.13720	.03914	-.01441	.18439
4.500	5.000	-.24695	-.07639	.03466	-.16693	.04780	-.01753	.18693
4.500	6.000	-.25313	-.07597	.03341	-.19784	.05684	-.02087	.18908
4.500	7.000	-.25765	-.07526	.03222	-.22969	.06639	-.02430	.19035
4.500	8.000	-.26248	-.07448	.03120	-.26303	.07678	-.02792	.19275
4.500	9.000	-.26702	-.07408	.03026	-.29847	.08845	-.03174	.19452
4.500	10.000	-.27135	-.07309	.02911	-.33493	.10057	-.03568	.19638
	GRADIENT	.03208	-.00032	.00024	-.00035	.00913	-.00337	.00029



REFERENCE DATA

SRP = 2490.0000 30 FT. YMRP = 1032.0000 IN. XT
 LRP = 1290.3000 IN. YMRP = .0000 IN. YT
 BRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 RV/L = 6.750

RUN NO. 67/ 0 RV/L = 6.52 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	COL	CA
4.500	-10.000	-.04193	-.31213	.10298	.00120	-.00081	.00082	.22338
4.500	-9.000	-.03569	-.28827	.09756	.00094	-.00087	.00072	.22493
4.500	-8.000	-.03004	-.26549	.09255	.00064	-.00096	.00067	.22624
4.500	-7.000	-.02392	-.24108	.08666	.00035	-.00115	.00080	.21432
4.500	-6.000	-.01815	-.21432	.07918	.00076	-.00125	.00057	.20881
4.500	-5.000	-.01228	-.19720	.07110	.00218	-.00113	.00090	.20318
4.500	-4.000	-.00778	-.18048	.06296	-.00090	-.00090	.00043	.19771
4.500	-3.000	-.00394	-.16329	.05326	-.00099	-.00085	.00030	.19271
4.500	-2.000	.00077	-.14667	.04773	-.00139	-.00090	.00024	.18738
4.500	-1.000	.01198	-.13019	.04040	-.00200	-.00077	.00022	.18212
4.500	.000	.02141	-.11411	.03261	-.00302	-.00034	.00022	.17639
4.500	1.000	.02602	-.09850	.02357	-.00374	.00000	.00020	.17094
4.500	2.000	.03001	.08950	.01914	-.00391	.00003	.00013	.17208
4.500	3.000	.03395	.08253	.01284	-.00376	.00004	-.00001	.16916
4.500	4.000	.03668	.07668	.00943	-.00431	.00034	-.00005	.16691
4.500	5.000	.04708	.06863	-.00209	-.00447	.00023	-.00002	.16472
4.500	6.000	.05403	.06460	-.00948	-.00465	.00003	-.00006	.16234
4.500	7.000	.05987	.06196	-.01670	-.00507	-.00003	-.00019	.15960
4.500	8.000	.06468	.05547	-.02337	-.00560	.00004	-.00027	.15692
4.500	9.000	.07387	.04920	-.03237	-.00632	-.00011	-.00026	.15440
4.500	10.000	.08516	.02423	-.04153	-.00661	-.00028	-.00024	.15238
				-.00723	-.00649	.00016	-.00005	-.00385

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ADDC VA-422(1A-97), ISOLATED ORBIT

(RTT000) (18 FEB 74)

REFERENCE DATA

REF = 2000.0000 IN. XT
 LREF = 1250.3000 IN. Y
 RREF = 1250.3000 IN. Z
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 RV/L = 0.750

RUN NO. 98/ 0 RV/L = 6.36		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	ALPHA	ON
4.500	-10.000	-.43217	-.06886
4.500	-9.000	-.43704	-.06826
4.500	-8.000	-.42203	-.07103
4.500	-7.000	-.40106	-.07311
4.500	-6.000	-.38196	-.07572
4.500	-5.000	-.36863	-.07842
4.500	-4.000	-.35639	-.07735
4.500	-3.000	-.34659	-.07980
4.500	-2.000	-.33823	-.08165
4.500	-1.000	-.33174	-.08220
4.500	.000	-.32793	-.08246
4.500	1.000	-.32686	-.08225
4.500	2.000	-.33014	-.08157
4.500	3.000	-.33609	-.08048
4.500	4.000	-.34164	-.07894
4.500	5.000	-.35163	-.07853
4.500	6.000	-.36211	-.07909
4.500	7.000	-.37025	-.07860
4.500	8.000	-.37710	-.07820
4.500	9.000	-.38334	-.07733
4.500	10.000	-.38921	-.07597
4.500	GRADIENT	.00179	-.00022
		CLM	CY
		.02206	.30779
		.02433	.27119
		.02666	.23641
		.02937	.20329
		.03137	.17192
		.03322	.14002
		.03504	.10817
		.03681	.07639
		.03819	.04611
		.03993	.01616
		.03949	-.01367
		.03957	-.04391
		.03886	-.07423
		.03778	-.10447
		.03627	-.13606
		.03511	-.16533
		.03426	-.19396
		.03317	-.22953
		.03231	-.26215
		.03133	-.29914
		.03051	-.33764
		.03016	-.37044
		CIN	CA
		-.09723	.20108
		-.08493	.19777
		-.07296	.19432
		-.06223	.19087
		-.05304	.18953
		-.04351	.18635
		-.03390	.18410
		-.02425	.18099
		-.01496	.18023
		-.00634	.17971
		.00219	.18093
		.01100	.18173
		.01992	.18313
		.02911	.18512
		.03869	.18603
		.04716	.18839
		.05569	.19060
		.06370	.19233
		.07634	.19453
		.08899	.19688
		.12344	.14408
		.03901	.03337



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AEDC VA-422(1A-37), CRB/ET WRIGHT BRB

(RTL0077) (16 APR 74)

REFERENCE DATA

SPR = 2890.0000 SQ.FT. YMRP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SPREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

L-SRB = .000 R-SRB = 1.000
 SRBPOS = .100 RV/L = 1.000
 PT-JET = 1.000.000 BETA = .000

PARAMETRIC DATA

RUN NO. 76/ 0 RV/L = 1.49 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	BETA	ON	QJM	CT	CTN	CEL	CA
4.500	-10.000	.16148	-.13458	-.14615	-.24392	.03390	-.01129	.07617
4.500	-9.000	.16082	-.11616	-.14770	-.23933	.03199	-.01109	.07491
4.500	-8.000	.16180	-.09338	-.14928	-.23244	.02879	-.01092	.07390
4.500	-7.000	.15480	-.06139	-.15260	-.21923	.02633	-.01103	.07189
4.500	-6.000	.15728	-.03674	-.15774	-.21403	.02282	-.01100	.07082
4.500	-5.000	.16125	-.01530	-.16198	-.20982	.01872	-.01070	.06994
4.500	-4.000	.16755	.00230	-.16478	-.20674	.01414	-.00987	.06949
4.500	-3.000	.18221	.01489	-.16697	-.21333	.00998	-.00949	.06936
4.500	-2.000	.18924	.03667	-.17079	-.21059	.00519	-.00722	.06992
4.500	-1.000	.18320	.05878	-.17645	-.19356	.00103	-.00644	.07036
4.500	.000	.18846	.07879	-.18050	-.19028	-.00414	-.00471	.06969
4.500	1.000	.19364	.09804	-.18376	-.18483	-.00941	-.00283	.06937
4.500	2.000	.19957	.10894	-.18880	-.18007	-.01476	-.00302	.06856
4.500	3.000	.20443	.11104	-.17115	-.17331	-.01936	-.00300	.06763
4.500	4.000	.20866	.12763	-.17261	-.17170	-.02392	-.00467	.06753
4.500	5.000	.21262	.14393	-.17517	-.17123	-.02989	-.00393	.06769
4.500	6.000	.21530	.16573	-.17933	-.17244	-.02678	-.00333	.06792
4.500	7.000	.21593	.18791	-.18523	-.17332	-.02682	-.00346	.06847
4.500	8.000	.21763	.21109	-.19193	-.17443	-.02747	-.00352	.06866
4.500	9.000	.22215	.23210	-.19806	-.17403	-.03026	-.00266	.06838
4.500	10.000	.22965	.24782	-.20719	-.17293	-.03293	-.00139	.06757
GRADIENT		.00472	.01633	-.00126	.00472	-.00466	.00068	-.00024

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AEDC VA-422(1A-57), CRD/ET WRIGHT SSB

(711008) (18 APR 74)

REFERENCE DATA

SRP = 2690.0000 SQ. FT. 106P = 1052.0000 IN. XT
 LREF = 1290.3000 IN. 114P = .0000 IN. YT
 SRP = 1290.3000 IN. 214P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRP08 = .100 FAVL = 1.000
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 75/ 0 RVL = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	COL	CA
4.500	-10.000	-.31030	-.00909	-.14936	.01130	-.04863	.00706	.08338
4.500	-9.000	-.30582	-.00422	-.14932	-.01602	-.04120	.00449	.08063
4.500	-8.000	-.30023	-.00162	-.14991	-.04048	-.03446	.00192	.07601
4.500	-7.000	-.29373	.00231	-.15042	-.06413	-.02853	-.00354	.07151
4.500	-6.000	-.28789	.00807	-.15106	-.08769	-.02313	-.00286	.06772
4.500	-5.000	-.28175	.01048	-.15183	-.11090	-.01811	-.00316	.06407
4.500	-4.000	-.28509	.03641	-.16920	-.13470	-.01112	-.00333	.06430
4.500	-3.000	-.28137	.04418	-.17151	-.16734	-.00756	-.00192	.06341
4.500	-2.000	-.27779	.04376	-.17193	-.17793	-.00497	-.00331	.06209
4.500	-1.000	-.27356	.04639	-.17185	-.19479	-.00247	-.00476	.06034
4.500	.000	-.26873	.05417	-.17380	-.19972	.00308	-.00724	.06141
4.500	1.000	-.26324	.05368	-.17237	-.21576	.00483	-.00884	.05824
4.500	2.000	-.25104	.04115	-.16077	-.23163	.00715	-.01490	.05574
4.500	3.000	-.24452	.04264	-.15953	-.25385	.01760	-.01790	.05358
4.500	4.000	-.23724	.04542	-.15862	-.28161	.02941	-.02171	.05291
4.500	5.000	-.23105	.04581	-.15656	-.30394	.03336	-.02363	.05190
4.500	6.000	-.22390	.04337	-.15171	-.32729	.04389	-.02621	.05332
4.500	7.000	-.21876	.04277	-.14971	-.34866	.04968	-.02861	.05437
4.500	8.000	-.21500	.04129	-.14769	-.36980	.05503	-.03006	.05334
4.500	9.000	-.21136	.04021	-.14639	-.39176	.06099	-.03123	.05564
4.500	10.000	-.20870	.03967	-.14571	-.41632	.06769	-.03244	.05774
	GRADIENT	.00563	.00180	.00070	-.01799	.00488	-.00230	-.00144



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0711000 (18 APR 74)

AEDC VA-422(1A-37), CRB/ET WRIGHT SRS

REFERENCE DATA

PARAMETRIC DATA

REF = 2890.0000 SQ. FT. 106P = 1052.0000 IN. XT
 UREF = 1290.3000 IN. 106P = .0000 IN. YT
 SREF = 1290.3000 IN. 206P = 447.0000 IN. ZT
 SCALE = .0100

L-SRS = .000 R-SRS = 1.000
 SRSPOS = .100 RV/L = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 68/ 0 RV/L = 1.96 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	QJ	CT	CIN	COL	CA
4.500	-10.000	.02600	-.30450	.08902	-.07209	.02228	-.00402	.23211
4.500	-9.000	.02722	-.28422	.08588	-.06643	.01999	-.00390	.22702
4.500	-8.000	.02635	-.26030	.08118	-.06033	.01764	-.00374	.22034
4.500	-7.000	.02539	-.23377	.07356	-.05464	.01524	-.00353	.21429
4.500	-6.000	.02487	-.20888	.06977	-.04953	.01319	-.00333	.20829
4.500	-5.000	.02398	-.18192	.06197	-.04362	.01179	-.00310	.20271
4.500	-4.000	.02367	-.15997	.05905	-.04049	.00955	-.00278	.19627
4.500	-3.000	.02380	-.13022	.04795	-.03985	.00737	-.00259	.19006
4.500	-2.000	.02452	-.10546	.04117	-.03172	.00519	-.00234	.18458
4.500	-1.000	.02504	-.07990	.03417	-.02827	.00342	-.00191	.17930
4.500	.000	.02564	-.05549	.02776	-.02539	.00188	-.00151	.17520
4.500	1.000	.02698	-.03260	.02241	-.02303	.00029	-.00109	.17191
4.500	2.000	.02811	-.00974	.01703	-.02157	-.00078	-.00073	.16829
4.500	3.000	.02903	.01330	.01116	-.02089	-.00138	-.00041	.16647
4.500	4.000	.03026	.03625	.00905	-.02081	-.00184	.00008	.16305
4.500	5.000	.03235	.05762	-.00035	-.02105	-.00249	.00059	.15938
4.500	6.000	.03495	.08034	-.00689	-.02166	-.00318	.00121	.15530
4.500	7.000	.03732	.10569	-.01411	-.02257	-.00363	.00188	.15211
4.500	8.000	.03998	.13083	-.02128	-.02463	-.00327	.00252	.14824
4.500	9.000	.04387	.15773	-.02958	-.02616	-.00325	.00309	.14673
4.500	10.000	.04261	.18569	-.03959	-.02887	-.00281	.00381	.14452
	GRADIENT	.00065	.02396	-.00620	.00247	-.00144	.00057	-.00417

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-37), CRB/ET WRIGHT SRS

ATL0009 (18 APR 74)

REFERENCE DATA

REF = 2690.0000 90 FT. 1061P = 1052.0000 IN. XT
 LREF = 1290.3000 IN. 1061P = .0000 IN. YT
 SREF = 1290.3000 IN. 2061P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRS = .000 R-SRS = 1.000
 SREFC = .100 RVL = 1.790
 PT-JET = .003 ALPHA = .000

RUN NO. 70/ 0 RVL = 1.85 GRADIENT INTERVAL = -5.00/ 9.00

MACH	BETA	ALPHA	CN	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13694	-.06049	.01543	.27447	-.09079	.03333	.19620
4.500	-9.000	-.13104	-.06232	.02066	.25919	-.07826	.02937	.19333
4.500	-8.000	-.12575	-.06431	.02290	.25000	-.06841	.02933	.19041
4.500	-7.000	-.12020	-.06663	.02464	.17229	-.05815	.02170	.18804
4.500	-6.000	-.11494	-.06899	.02707	.14033	-.04835	.01679	.18423
4.500	-5.000	-.11031	-.07164	.02539	.10291	-.03936	.01447	.18132
4.500	-4.000	-.10580	-.07432	.02072	.07960	-.02931	.01092	.17843
4.500	-3.000	-.10066	-.07574	.03185	.04968	-.02175	.00737	.17571
4.500	-2.000	-.09694	-.07578	.02220	.02149	-.01231	.00424	.17350
4.500	-1.000	-.09309	-.07600	.03300	-.00376	-.00230	.00049	.17340
4.500	.000	-.08975	-.07763	.03449	-.03893	.00303	-.00304	.17364
4.500	1.000	-.08704	-.07835	.03539	-.06798	.01359	-.00632	.17320
4.500	2.000	-.08487	-.07883	.03595	-.09749	.02234	-.01006	.17624
4.500	3.000	-.08311	-.08013	.03665	-.12590	.02949	-.01316	.17753
4.500	4.000	-.08283	-.08214	.03664	-.15326	.03628	-.01607	.17759
4.500	5.000	-.08211	-.08346	.03656	-.18147	.04400	-.01907	.17723
4.500	6.000	-.08191	-.08398	.03570	-.21263	.05276	-.02232	.17759
4.500	7.000	-.08260	-.08229	.03412	-.24486	.06234	-.02396	.17944
4.500	8.000	-.08277	-.08043	.03245	-.27694	.07288	-.02399	.18120
4.500	9.000	-.08306	-.07923	.03106	-.31283	.08257	-.03330	.18299
4.500	10.000	-.08431	-.07629	.02946	-.34736	.09299	-.03694	.18373
4.500	GRADIENT	.03266	-.03101	.00061	-.02311	.00629	-.00340	-.00011



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ADDC VA-428(1A-57), CRB/ET WRIGHT SRS

0011011 (10 APR 74)

REFERENCE DATA

SPR = 2400.0000 60.FT. 104RP = 1092.0000 IN. XT
 LRP = 1290.3000 IN. 114RP = .0000 IN. YT
 BRP = 1290.3000 IN. 214RP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-200 = .000 R-200 = 1.000
 SRS-00 = .100 RV/L = 1.700
 PT-JET = 750.000 BETA = .000

RUN NO. 72/ 0 RV/L = 1.06 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	BETA	CN	CLN	CT	CYN	CEL	CA
4.500	-10.000	.10079	-.23077	-.02130	-.12923	.01909	-.01102	.12214
4.500	-9.000	.10159	-.17693	-.02437	-.12341	.01762	-.01024	.11930
4.500	-8.000	.10239	-.13799	-.02896	-.12130	.01532	-.00930	.11683
4.500	-7.000	.10369	-.10791	-.03283	-.11768	.01342	-.00830	.11416
4.500	-6.000	.10569	-.11742	-.03634	-.11322	.01161	-.00745	.11122
4.500	-5.000	.10851	-.09484	-.03936	-.11342	.00996	-.00668	.10872
4.500	-4.000	.10321	-.07384	-.04316	-.10638	.00831	-.00586	.10599
4.500	-3.000	.10224	-.09403	-.04666	-.10299	.00681	-.00493	.10306
4.500	-2.000	.10223	-.03501	-.05020	-.09322	.00593	-.00396	.09964
4.500	-1.000	.10432	-.01999	-.05436	-.08362	.00444	-.00308	.09693
4.500	.000	.10764	.00033	-.05725	-.07469	.00321	-.00236	.09334
4.500	1.000	.10896	.01963	-.06127	-.06373	.00399	-.00233	.09023
4.500	2.000	.10972	.03884	-.06490	-.06641	.00357	-.00203	.08703
4.500	3.000	.11180	.05544	-.06716	-.06883	.00297	-.00178	.08351
4.500	4.000	.11590	.07316	-.07033	-.06932	.00372	-.00107	.08238
4.500	5.000	.11691	.08877	-.07619	-.06317	.00368	-.00098	.08092
4.500	6.000	.11372	.11000	-.07968	-.06301	.00379	-.00098	.08030
4.500	7.000	.11317	.13032	-.08241	-.08134	.00749	-.00408	.08023
4.500	8.000	.11730	.14920	-.08481	-.08112	.00846	-.00310	.08024
4.500	9.000	.11999	.16863	-.08914	-.08247	.00852	-.00244	.08773
4.500	10.000	.12170	.19162	-.09484	-.08353	.00817	-.00162	.08403
	GRADIENT	.00138	.01834	-.00333	.00246	-.00168	.00316	-.00131

AEDC VA-422(1A-37), CRU/ET WRIGHT SRB

RTTLO12 (10 APR 74)

REFERENCE DATA

REF = 2880.0000 IN. FT. XRP = 1032.0000 IN. XT
 LRP = 1290.3000 IN. YRP = .0000 IN. YT
 RPE = 1290.3000 IN. ZRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRBPOS = .100 FB/L = 1.780
 PT-JET = 750.000 ALPHA = .000

RUN NO. 71/0 RV/L = 1.83 GRADIENT INTERVAL = -.2 IN/ 5.00

WICH	BETA	ALPHA	ON	CLM	CT	CTM	CSL	CA
4.500	-10.000	-.23776	-.04237	-.03389	.17261	-.06833	.01982	.12930
4.500	-9.000	-.22335	-.04112	-.03276	.13931	-.03671	.01624	.12391
4.500	-8.000	-.22184	-.03832	-.03264	.10916	-.04743	.01323	.11913
4.500	-7.000	-.21394	-.03484	-.03264	.07931	-.03873	.01033	.11447
4.500	-6.000	-.20682	-.03213	-.03233	.03149	-.03112	.00745	.11227
4.500	-5.000	-.20067	-.02933	-.03239	.02727	-.02533	.00348	.10732
4.500	-4.000	-.19332	-.02514	-.03310	.00346	-.02339	.00353	.10413
4.500	-3.000	-.18640	-.02239	-.03293	-.02218	-.01340	.00119	.10049
4.500	-2.000	-.17966	-.02117	-.03212	-.03023	-.00792	-.00163	.09599
4.500	-1.000	-.17487	-.01804	-.03322	-.07393	-.00164	-.00463	.09319
4.500	.000	-.17223	-.01687	-.03273	-.09430	-.00129	-.00398	.09263
4.500	1.000	-.16998	-.01826	-.03274	-.11480	.00120	-.00736	.09163
4.500	2.000	-.16339	-.01891	-.03199	-.13611	.00339	-.00318	.09116
4.500	3.000	-.16280	-.01936	-.03164	-.16003	.01029	-.01093	.08968
4.500	4.000	-.16131	-.01933	-.03211	-.18331	.01592	-.01278	.08528
4.500	5.000	-.16076	-.01856	-.03312	-.21146	.02273	-.01484	.08034
4.500	6.000	-.15993	-.01861	-.03340	-.23741	.02963	-.01721	.08036
4.500	7.000	-.16012	-.01820	-.03430	-.26361	.03701	-.01939	.08063
4.500	8.000	-.15912	-.01824	-.04437	-.28076	.04471	-.02157	.08318
4.500	9.000	-.15717	-.01897	-.05339	-.31947	.05332	-.02402	.08673
4.500	10.000	-.15633	-.01928	-.05339	-.34850	.06194	-.02626	.10079
GRADIENT		.00393	.00382	.00033	-.02339	.00450	-.00231	-.00171

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(DTL013) (16 APR 74)

ABDC VA-422(1A-57), CRB/ET W/RIGHT SRB

REFERENCE DATA

SRB = 2890.0000 SO.FT. XMRP = 1033.0000 IN. YT
 LMRP = 1290.3000 IN. YMRP = .0000 IN. YT
 RMRP = 1290.3000 IN. ZMRP = 447.3000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRBPOS = .100 RVL = 1.760
 PT-JET = 1500.000 BETA = .000

RUN NO. TS/ C RVL = 1.86 GRADIENT INTERVAL = -.3.00/ 3.00

MACH	ALPHA	BETA	ON	CLM	CV	CTM	CSL	CA
4.500	-10.000	.15976	-.19817	-.10313	-.18965	.02456	-.01003	.08372
4.500	-9.000	.15436	-.13296	-.10369	-.16193	.02293	-.01041	.06329
4.500	-8.000	.15190	-.11216	-.10494	-.17764	.02217	-.01068	.06183
4.500	-7.000	.15226	-.09326	-.10744	-.17331	.02113	-.01090	.06034
4.500	-6.000	.15364	-.07469	-.10921	-.17347	.01999	-.01191	.07921
4.500	-5.000	.15965	-.05619	-.11119	-.17147	.01661	-.01342	.07846
4.500	-4.000	.16322	-.03822	-.11301	-.17014	.01393	-.01369	.07717
4.500	-3.000	.17163	-.01819	-.12040	-.16814	.00935	-.01334	.07593
4.500	-2.000	.17796	.00261	-.12597	-.16286	.00350	-.01274	.07462
4.500	-1.000	.18449	.02344	-.12982	-.16076	.00193	-.01203	.07310
4.500	.000	.19173	.04266	-.13330	-.15790	-.00235	-.01067	.07273
4.500	1.000	.19807	.06033	-.13564	-.15627	-.00359	-.00976	.07291
4.500	2.000	.20353	.07761	-.13729	-.15441	-.00663	-.00971	.07263
4.500	3.000	.20962	.09437	-.13862	-.15196	-.01229	-.00746	.07277
4.500	4.000	.21623	.11235	-.14091	-.14930	-.01626	-.00599	.07237
4.500	5.000	.22263	.13101	-.14366	-.14643	-.01934	-.00460	.07201
4.500	6.000	.22805	.15079	-.14793	-.14340	-.02393	-.00391	.07240
4.500	7.000	.23396	.17292	-.15368	-.14943	-.02900	-.00362	.07276
4.500	8.000	.23978	.19437	-.15926	-.14971	-.02193	-.00343	.07234
4.500	9.000	.24446	.21326	-.16356	-.15033	-.02363	-.00263	.07234
4.500	10.000	.25743	.23561	-.17039	-.15176	-.02445	-.00230	.07211
	GRADIENT	.00633	.01675	-.00316	.00239	-.00363	.00794	-.00039

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-57), ORB/ET WRIGHT 888

07TL014) (18 APR 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. YARP = 1092.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 REF = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = .000 R-308 = 1.000
 SRBPOS = .100 RW/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RAN NO. 74/ 0 RW/L = 1.89 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CT	CTN	CEL	CA
4.500	-10.000	-.32836	-.01345	-.11802	.06044	-.03284	.01164	.09612
4.500	-9.000	-.32120	-.01222	-.11735	.03155	-.04421	.00900	.09337
4.500	-8.000	-.31457	-.00969	-.11746	.00543	-.03757	.00674	.08878
4.500	-7.000	-.30762	-.00748	-.11782	-.01934	-.03180	.00454	.08378
4.500	-6.000	-.30139	-.00528	-.11782	-.04242	-.02676	.00220	.07972
4.500	-5.000	-.29525	-.00253	-.11806	-.06322	-.02166	-.00040	.07617
4.500	-4.000	-.28888	.00037	-.11819	-.08850	-.01632	-.00308	.07347
4.500	-3.000	-.28369	.00262	-.11806	-.11498	-.01106	-.00582	.07189
4.500	-2.000	-.28169	.00596	-.12015	-.13648	-.00560	-.00809	.07035
4.500	-1.000	-.28008	.01932	-.12731	-.14395	.00001	-.01105	.07020
4.500	.000	-.27384	.02036	-.12678	-.16368	.00379	-.01262	.06889
4.500	1.000	-.23716	.02177	-.12587	-.18335	.00881	-.01426	.06493
4.500	2.000	-.26148	.02328	-.12546	-.20756	.01825	-.01693	.06339
4.500	3.000	-.25557	.02501	-.12499	-.23115	.02630	-.01970	.06207
4.500	4.000	-.24994	.02718	-.12434	-.25448	.03273	-.02189	.06293
4.500	5.000	-.24472	.02889	-.12363	-.27754	.03875	-.02382	.06364
4.500	6.000	-.24039	.02940	-.12286	-.29797	.04218	-.02523	.06392
4.500	7.000	-.23667	.02735	-.12105	-.31749	.04482	-.02626	.06499
4.500	8.000	-.23170	.02256	-.11703	-.33635	.04729	-.02632	.06681
4.500	9.000	-.22843	.01895	-.11436	-.35740	.05155	-.02696	.06782
4.500	10.000	-.22639	.01803	-.11374	-.38179	.05788	-.02801	.06933
	GRADIENT	.00496	.00334	-.00075	-.02060	.00806	-.00232	-.00139



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(RTLD13) (10 APR 74)

AEDC VA-422(1A-57), CRB/ET WRIGHT 808

REFERENCE DATA

9427 = 2000.0000 SQ. FT. 1046P = 1002.0000 IN. XT
 1046P = 1200.3000 IN. 1046P = .0000 IN. YT
 9427 = 1200.3000 IN. 2046P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = .000 R-808 = 2.000
 SR808 = .200 RW/L = 1.400
 PT-JET = 1000.000 BETA = .000

RUN NO. 68/ 0 RW/L = 1.50 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CV	CYN	CEL	CA
4.500	-10.000	.31721	-.17226	.03159	-.39973	.00502	-.01203	.15002
4.500	-9.000	.32475	-.14009	.04521	-.36032	.00295	-.01246	.15767
4.500	-8.000	.33266	-.12046	.03834	-.34346	.00115	-.01245	.15459
4.500	-7.000	.33669	-.09742	.03225	-.34659	.00087	-.01253	.15183
4.500	-6.000	.33614	-.07310	.02533	-.34656	.00159	-.01276	.14800
4.500	-5.000	.33026	-.05037	.01996	-.34619	.00197	-.01312	.14268
4.500	-4.000	.32317	-.03150	.01630	-.34674	.00137	-.01395	.13917
4.500	-3.000	.31910	-.01410	.01737	-.33975	-.00004	-.01449	.13297
4.500	-2.000	.31644	.00256	.01654	-.33510	-.00045	-.01531	.12888
4.500	-1.000	.31396	.01677	.01508	-.33169	-.00032	-.01601	.12461
4.500	.000	.31301	.03406	.01292	-.32562	-.00035	-.01647	.11963
4.500	1.000	.31109	.05073	.01001	-.32769	.00000	-.01682	.11563
4.500	2.000	.31113	.06603	.00778	-.32723	.00006	-.01709	.11254
4.500	3.000	.31033	.08216	.00493	-.32550	-.00006	-.01756	.10906
4.500	4.000	.30942	.09857	.00127	-.32327	-.00045	-.01744	.10579
4.500	5.000	.30753	.11649	-.00517	-.32313	.00056	-.01760	.10216
4.500	6.000	.30579	.13599	-.01171	-.32287	.00146	-.01778	.09873
4.500	7.000	.30420	.15273	-.01662	-.31945	.00223	-.01743	.09596
4.500	8.000	.29577	.16984	-.02066	-.31277	.00167	-.01654	.09445
4.500	9.000	.28264	.18504	-.02373	-.30822	.00115	-.01542	.09260
4.500	10.000	.26930	.20063	-.02710	-.30429	.00104	-.01441	.09032
4.500	GRADIENT	-.00192	.01639	-.00231	.00309	-.00012	-.00046	-.00403

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AEDC VA-422 (1A-57), CRB/ET WRIGHT SSB

RTLD08 (18 APR 74)

REFERENCE DATA

9827 = 2880.0000 88. FT. 306P = 1052.0000 IN. XT
 1467 = 1280.3000 IN. 146P = .0000 IN. YT
 9827 = 1280.3000 IN. 246P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRBPCB = .200 RV/L = 1.400
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 67/0 RV/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	Q/M	CY	CYN	QCL	CA
4.500	-10.000	-.03985	.04742	-.00280	.04564	-.09166	.02298	.15086
4.500	-9.000	-.03479	.04721	-.00279	.03943	-.08009	.01895	.14377
4.500	-8.000	-.03245	.03005	-.00343	-.04216	-.06462	.01363	.13627
4.500	-7.000	-.03330	.05992	-.01192	-.08865	-.04073	.00791	.12579
4.500	-6.000	-.03097	.05717	-.01364	-.12867	-.03703	.00293	.12043
4.500	-5.000	-.02488	.04932	-.00895	-.16619	-.03017	-.00163	.11340
4.500	-4.000	-.01983	.03676	-.00088	-.20102	-.02543	-.00430	.11020
4.500	-3.000	-.01693	.02846	.00432	-.23324	-.02108	-.00711	.11141
4.500	-2.000	-.01314	.02221	.00913	-.26593	-.01561	-.00985	.11312
4.500	-1.000	-.00862	.01813	.01330	-.30184	-.00774	-.01330	.11489
4.500	.000	-.00429	.01697	.01496	-.33920	.00115	-.01686	.11697
4.500	1.000	-.00221	.02165	.01415	-.37813	.01041	-.02023	.11823
4.500	2.000	-.00267	.02833	.00974	-.41440	.01898	-.02272	.11926
4.500	3.000	-.00343	.03391	.00424	-.43686	.02190	-.02274	.11920
4.500	4.000	-.00903	.03370	.00078	-.45146	.02152	-.02279	.11746
4.500	5.000	-.01265	.03364	-.00296	-.46702	.02163	-.02281	.11480
4.500	6.000	-.01397	.03431	-.00377	-.47993	.01991	-.02180	.11230
4.500	7.000	-.01363	.03315	-.00993	-.49333	.01926	-.02079	.11219
4.500	8.000	-.01230	.02223	-.00332	-.51607	.02146	-.02157	.11362
4.500	9.000	-.01025	.03115	-.00369	-.54127	.02310	-.02384	.11649
4.500	10.000	-.00996	.02950	-.00107	-.56992	.02771	-.02682	.12390
4.500	GRADIENT	.00131	-.00053	.00033	-.03173	.00603	-.00235	.00068



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AEDC VA-422(1A-57), CR8/ET WRIGHT 888

(OTL817) (16 APR 74)

REFERENCE DATA

PARAMETRIC DATA

SRP = 2000.0000 80. FT. 1000 = 1000.0000 IN. XT
 LRP = 1200.0000 IN. VARP = .0000 IN. YT
 SRP = 1200.0000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

L-808 = .000 R-808 = 2.000
 SRP08 = .200 RV/L = 1.700
 PT-JET = .000 BETA = .000

RUN NO. 61/ 0 RV/L = 1.00 GRADIENT INTERVAL = -3.00/ 3.00

WICH	ALPHA	BETA	ON	CLM	CT	CYN	CEL	CA
4.500	-10.000	.04321	-.30259	.09685	-.00960	.00381	.00035	.23496
4.500	-9.000	.03857	-.27650	.09135	-.00909	.00396	.00037	.23047
4.500	-8.000	.03434	-.25495	.08612	-.00865	.00437	.00063	.22508
4.500	-7.000	.02973	-.22946	.07932	-.00794	.00460	.00061	.21929
4.500	-6.000	.02498	-.20254	.07181	-.00708	.00490	.00064	.21357
4.500	-5.000	.02047	-.17453	.06353	-.00616	.00571	.00063	.20754
4.500	-4.000	.01616	-.14741	.05500	-.00508	.00596	.00062	.20116
4.500	-3.000	.01169	-.12144	.04694	-.00440	.00582	.00065	.19471
4.500	-2.000	.00753	-.09608	.03913	-.00368	.00594	.00055	.18915
4.500	-1.000	.00316	-.07139	.03196	-.00286	.00599	.00060	.18394
4.500	.000	-.00134	-.04785	.02529	-.00212	.00633	.00053	.17975
4.500	1.000	-.00595	-.02375	.01792	-.00127	.00678	.00000	.17644
4.500	2.000	-.01066	.00170	.00941	-.00137	.00744	-.00096	.17394
4.500	3.000	-.01535	.02757	.00354	-.00152	.00836	-.00207	.17220
4.500	4.000	-.01987	.05371	-.00957	-.00166	.00907	-.00295	.17042
4.500	5.000	-.02426	.07891	-.01697	-.00174	.00959	-.00321	.16941
4.500	6.000	-.02776	.10269	-.02448	-.00185	.00989	-.00326	.16866
4.500	7.000	-.03116	.12594	-.03140	-.00185	.00983	-.00293	.16832
4.500	8.000	-.03355	.14907	-.03774	-.00193	.00915	-.00231	.16809
4.500	9.000	-.03750	.17565	-.04478	-.00182	.00828	-.00187	.16750
4.500	10.000	-.04137	.19765	-.05133	-.00102	.00678	-.00134	.16724
	GRADIENT	-.00449	.02511	-.00790	-.00060	.00040	-.00041	-.00396

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 29 OCT 74

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AEDC WA-482(1A-97), ORBIT WEIGHT 808

(RTLO18) (18 APR 74)

REFERENCE DATA

REF = 2690.0000 90. FT. 1061P = 1052.0000 IN. XT
 LREF = 1290.3000 IN. 1061P = .0000 IN. YT
 REF = 1290.3000 IN. 2061P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = .000 R-808 = 2.000
 SR808 = .000 RV/L = 1.700
 PT-JET = .000 ALPHA = .000

RUN NO. 62/ 0 RV/L = 1.00 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13266	-.04606	.01206	.25079	-.09900	.03336	.20271
4.500	-9.000	-.12659	-.04593	.01334	.25602	-.07724	.02973	.19904
4.500	-8.000	-.12150	-.04690	.01619	.22337	-.06713	.02636	.19550
4.500	-7.000	-.11434	-.05228	.01930	.19110	-.05714	.02304	.19202
4.500	-6.000	-.10852	-.05604	.02261	.16016	-.04797	.02000	.18930
4.500	-5.000	-.10450	-.05979	.02492	.12611	-.03923	.01661	.18602
4.500	-4.000	-.09996	-.06324	.02759	.09681	-.02803	.01291	.18403
4.500	-3.000	-.09590	-.06712	.03032	.06630	-.01964	.00962	.18213
4.500	-2.000	-.09213	-.06841	.03198	.03571	-.00907	.00626	.18050
4.500	-1.000	-.08969	-.06813	.03141	.00501	.00032	.00231	.17869
4.500	.000	-.08759	-.06775	.03144	-.02540	.00973	-.00063	.17673
4.500	1.000	-.08509	-.06917	.03297	-.05577	.01909	-.00397	.18269
4.500	2.000	-.08339	-.06922	.03341	-.08682	.02854	-.00764	.18247
4.500	3.000	-.08290	-.06770	.03251	-.11799	.03800	-.01126	.18443
4.500	4.000	-.08246	-.06750	.03214	-.14941	.04712	-.01481	.18643
4.500	5.000	-.08396	-.06821	.03031	-.18005	.05579	-.01823	.18756
4.500	6.000	-.08619	-.06416	.02760	-.21143	.06467	-.02173	.18932
4.500	7.000	-.08769	-.06236	.02591	-.24551	.07541	-.02560	.19126
4.500	8.000	-.08904	-.05967	.02358	-.28031	.08698	-.02975	.19394
4.500	9.000	-.09035	-.05751	.02160	-.31597	.09800	-.03390	.19630
4.500	10.000	-.09259	-.05444	.01924	-.35275	.10995	-.03832	.19886
4.500	GRADIENT	.00212	-.00048	.00032	-.03077	.00941	-.00348	.00027



DATE 29 OCT 74

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AEDC VA-422(1A-37), CRB/ET WRIGHT CRB

(RTLOBS) (16 APR 74)

REFERENCE DATA

GRIP = 2880.0000 SQ. FT. YMRP = 1052.0000 IN. XT
 UNIP = 1280.0000 IN. YMRP = .0000 IN. YT
 GRIP = 1280.0000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRPCH = .200 RV/L = 1.760
 PT-JET = 750.000 BETA = .000

RUN NO. 64' 0 RV/L 1.68 GRADIENT INTERVAL = -5.00/ 5.00

HAOH	ALPHA	BETA	ON	QM	CT	CTN	COL	CA
4.500	-10.000	.17725	-.23247	.06164	-.23497	.04651	-.01219	.22576
4.500	-9.000	.16000	-.22799	.07342	-.23072	.04459	-.01219	.22076
4.500	-8.000	.17936	-.20196	.08476	-.24596	.04290	-.01231	.21534
4.500	-7.000	.17665	-.17645	.05575	-.24109	.04134	-.01252	.20945
4.500	-6.000	.17669	-.15062	.04675	-.23501	.03949	-.01261	.20556
4.500	-5.000	.17456	-.12564	.03897	-.22795	.03758	-.01260	.19702
4.500	-4.000	.17226	-.10204	.03143	-.21968	.03477	-.01277	.19042
4.500	-3.000	.16981	-.07918	.02412	-.21267	.03259	-.01270	.18436
4.500	-2.000	.16577	-.05705	.01755	-.20430	.03050	-.01261	.17757
4.500	-1.000	.16234	-.03627	.01171	-.19664	.02646	-.01291	.17129
4.500	.000	.15928	-.01780	.00725	-.18999	.02673	-.01324	.16584
4.500	1.000	.15616	.00037	.00565	-.18351	.02512	-.01371	.16019
4.500	2.000	.15285	.01911	-.00015	-.17805	.02405	-.01420	.15471
4.500	3.000	.14970	.03812	-.00393	-.17351	.02335	-.01446	.14932
4.500	4.000	.14724	.05698	-.00772	-.16987	.02278	-.01451	.14442
4.500	5.000	.14547	.07498	-.01151	-.16756	.02257	-.01475	.13956
4.500	6.000	.14390	.09560	-.01613	-.16600	.02262	-.01485	.13410
4.500	7.000	.14470	.11679	-.02143	-.16488	.02186	-.01459	.12919
4.500	8.000	.14656	.13977	-.02716	-.16364	.02099	-.01396	.12477
4.500	9.000	.14961	.16230	-.03326	-.16206	.01859	-.01313	.12058
4.500	10.000	.15362	.18726	-.03996	-.16072	.01641	-.01257	.11658
GRADIENT		-.00507	.01982	-.00497	.00623	-.00151	-.00023	-.00376

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AEDC VA-422(1A-57), CRAB/ET WRIGHT 888

(RTLOED) (16 APR 74)

REFERENCE DATA

8887 = 2690.0000 SQ.FT. YMRP = 1032.0000 IN. XT
 8888 = 1290.3000 IN. YMRP = .0000 IN. YT
 8889 = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRBPOS = .200 RV/L = 1.760
 PT-JET = 730.000 ALPHA = .000

RUN NO. 65/ 0 RV/L = 1.69 GRADIENT INTERVAL = -5.00/ 5.00

WAOI	BETA	ALPHA	ON	QJH	CY	CTN	CBL	CA
4.500	-10.000	-.11585	-.04802	.01377	.07043	-.04844	.01403	.18062
4.500	-9.000	-.11051	-.03960	.01316	.05604	-.03935	.01161	.17942
4.500	-8.000	-.10414	-.03279	.01160	.00442	-.02922	.00848	.17794
4.500	-7.000	-.09812	-.02878	.01169	-.02432	-.01962	.00522	.17638
4.500	-6.000	-.09331	-.02756	.01256	-.05252	-.01069	.00196	.17510
4.500	-5.000	-.09034	-.02861	.01354	-.07773	-.00253	-.00119	.17507
4.500	-4.000	-.08762	-.03065	.01359	-.10176	.00407	-.00386	.17430
4.500	-3.000	-.09006	-.03148	.01296	-.12493	.00936	-.00387	.17166
4.500	-2.000	-.08991	-.03175	.01183	-.14820	.01512	-.00790	.16892
4.500	-1.000	-.08977	-.03316	.01126	-.17570	.02266	-.01067	.16614
4.500	.000	-.09010	-.03563	.01156	-.20235	.02985	-.01378	.16364
4.500	1.000	-.09090	-.03984	.01163	-.22828	.03316	-.01680	.16183
4.500	2.000	-.09116	-.04090	.01109	-.25479	.03938	-.01983	.16062
4.500	3.000	-.09168	-.04210	.01026	-.28035	.04351	-.02238	.15830
4.500	4.000	-.09261	-.04426	.00986	-.30734	.04781	-.02516	.15711
4.500	5.000	-.09347	-.04722	.00969	-.33381	.05243	-.02743	.15563
4.500	6.000	-.09435	-.05092	.01043	-.36006	.05801	-.03003	.15336
4.500	7.000	-.09412	-.05286	.01079	-.38283	.06343	-.03256	.15480
4.500	8.000	-.09316	-.05326	.01091	-.42372	.06959	-.03491	.15356
4.500	9.000	-.09270	-.05356	.01086	-.45530	.07351	-.03732	.15667
4.500	10.000	-.09337	-.05350	.01122	-.48721	.07796	-.03949	.15830
4.500	GRADIENT	-.00027	-.00186	-.00038	-.02576	.00359	-.00270	-.00236



DATE 20 OCT 74

12 MAY

(10 APR 74)

AEDC V-422(1A-57); ORDET WRIGHT 880

REFERENCE DATA

9907	=	8090.0000	99.97.	999P	=	1092.0000	IN. Y7
9908	=	1290.3000	IN.	999P	=	.0000	IN. Y7
9909	=	1290.3000	IN.	999P	=	447.0000	IN. Z7
9910	=	.0100					

PARAMETRIC DATA

L-380B	=	.000	R-280B	=	2.000
SRI8008	=	.200	RAVL	=	1.700
PT-JET	=	1900.000	BETA	=	.000

NO. N-100 0.75 INCH ± 1.90 TOLERANCE INTERVAL = 3.00 5.00

MAOH	ALPHA	BETA	ON	QLM	CY	CYN	CEL	CA
4.500	-10.000	3.5403	-1.9815	.05749	-.34736	.01623	-.01163	.18814
4.500	-9.000	3.5922	-1.6976	.04940	-.34421	.01599	-.01182	.18339
4.500	-8.000	3.5712	-1.4509	.04274	-.33994	.01502	-.01201	.17835
4.500	-7.000	3.5269	-1.2091	.03761	-.33672	.01586	-.01235	.17437
4.500	-6.000	3.4794	-.09982	.03286	-.33165	.01587	-.01296	.17010
4.500	-5.000	3.4253	-.08037	.02910	-.32462	.01520	-.01301	.16501
4.500	-4.000	3.4005	-.06135	.02505	-.32110	.01491	-.01300	.15982
4.500	-3.000	3.3949	-.05931	.02027	-.31693	.01345	-.01348	.15542
4.500	-2.000	3.3936	-.01947	.01569	-.31227	.01207	-.01391	.14674
4.500	-1.000	3.3792	-.00111	.01243	-.30940	.01120	-.01442	.14077
4.500	.000	3.39829	.01798	.00902	-.30821	.01073	-.01515	.13467
4.500	1.000	3.3634	.03494	.00556	-.30410	.00976	-.01545	.12861
4.500	2.000	3.3021	.05131	.00149	-.29893	.00876	-.01534	.12272
4.500	3.000	3.2357	.06796	-.00263	-.29740	.00719	-.01531	.11774
4.500	4.000	3.1941	.08474	-.00663	-.29076	.00579	-.01534	.11385
4.500	5.000	3.1641	.10028	-.01009	-.27541	.00451	-.01531	.11054
4.500	6.000	3.1384	.11573	-.01269	-.27171	.00395	-.01576	.10702
4.500	7.000	3.1123	.13127	-.01457	-.26934	.00376	-.01654	.10399
4.500	8.000	3.0769	.14819	-.01749	-.26639	.00378	-.01642	.10099
4.500	9.000	3.0396	.16463	-.01990	-.26433	.00342	-.01565	.09631
4.500	10.000	3.0404	.18331	-.02369	-.26063	.00240	-.01483	.09566
GRADIENT		-.00253	.01807	-.00386	.00484	-.00106	-.00027	-.00366

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ABDC VA-422 (A-57), ORBIT WEIGHT 500

(RTLO22) (10 APR 74)

REFERENCE DATA

REF = 2400.0000 80. FT. XREF = 1032.0000 IN. XT
 UREF = 1290.3000 IN. YREF = .0000 IN. YT
 WREF = 1290.3000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-578 = .000 R-578 = 2.000
 SRBPOS = .200 RW/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 00/ 0 RW/L = 1.90 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	BETA	ALPHA	ON	QJH	CY	CYN	CEL	CA
4.500	-10.000	-.06251	.02251	.00167	.00984	-.06375	.02233	.19316
4.500	-9.000	-.06265	.02043	.00036	.01033	-.06495	.01679	.14939
4.500	-8.000	-.06116	.01992	-.00015	-.03472	-.03448	.01123	.14301
4.500	-7.000	-.03612	.01328	.00298	-.07990	-.04376	.00676	.13681
4.500	-6.000	-.03224	.00942	.00637	-.11196	-.03393	.00315	.13234
4.500	-5.000	-.03103	.00907	.00799	-.14630	-.02915	.00001	.13040
4.500	-4.000	-.03024	-.00036	.00669	-.17921	-.02363	-.00266	.13036
4.500	-3.000	-.04553	-.00724	.01481	-.21674	-.01550	-.00668	.13361
4.500	-2.000	-.04210	-.00777	.01627	-.23438	-.01519	-.01015	.13616
4.500	-1.000	-.04146	-.00498	.01444	-.26728	.00502	-.01266	.13635
4.500	.000	-.04061	.00003	.01068	-.31090	.01220	-.01464	.13373
4.500	1.000	-.04091	.00389	.00712	-.33035	.01735	-.01633	.12963
4.500	2.000	-.04221	.00661	.00349	-.33041	.02147	-.01848	.12611
4.500	3.000	-.04301	.00946	.00068	-.37273	.02477	-.02003	.12292
4.500	4.000	-.04393	.00902	-.00139	-.39106	.02922	-.02032	.12031
4.500	5.000	-.04422	.00912	-.00236	-.40363	.02357	-.02103	.11969
4.500	6.000	-.04470	.00973	-.00364	-.42934	.02674	-.02216	.11991
4.500	7.000	-.04390	.01173	-.00462	-.43096	.02627	-.02348	.12034
4.500	8.000	-.04393	.01110	-.00323	-.47747	.03144	-.02369	.12217
4.500	9.000	-.04531	.00962	-.00341	-.50739	.03397	-.02375	.12456
4.500	10.000	-.04732	.00730	-.00326	-.53986	.04077	-.03214	.12733
	GRADIENT	.00361	.00139	-.00151	-.02607	.00596	-.07213	-.00139



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AEDC VA-422(1A-57), ORB/ET WRIGHT SR0

07TLOZ) (18 APR 74)

REFERENCE DATA

SR0P = 2000.0000 50. FT. XMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BR0P = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRBPOS = .300 RW/L = 1.400
 PT-JET = 1900.000 BETA = .000

RUN NO. 04/ 0 RW/L = 1.51 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.02719	-.07523	-.03760	-.15365	.00907	-.01609	.20318
4.500	-9.000	-.02725	-.04494	-.04575	-.16316	.09332	-.01642	.20234
4.500	-8.000	-.02793	-.01900	-.05477	-.17292	.03850	-.01908	.19790
4.500	-7.000	-.03035	.01553	-.06463	-.18273	.10441	-.01997	.19364
4.500	-6.000	-.03136	.04696	-.07691	-.19218	.10941	-.02392	.18994
4.500	-5.000	-.03217	.08503	-.08916	-.20163	.11432	-.02117	.18350
4.500	-4.000	-.03149	.11994	-.10208	-.21073	.11830	-.02068	.18161
4.500	-3.000	-.02680	.15252	-.11357	-.21779	.11925	-.01968	.17711
4.500	-2.000	-.02114	.18271	-.12527	-.22436	.11950	-.01893	.17148
4.500	-1.000	-.01352	.21068	-.13135	-.22967	.11814	-.01905	.16632
4.500	.000	-.00676	.23520	-.13904	-.23933	.11933	-.02134	.16461
4.500	1.000	.00087	.25108	-.14108	-.25374	.12236	-.02344	.16265
4.500	2.000	.00370	.26311	-.14381	-.26258	.12412	-.02536	.15989
4.500	3.000	.00720	.27789	-.14593	-.26945	.12613	-.03098	.15949
4.500	4.000	.00622	.29243	-.14909	-.27220	.12838	-.03239	.15204
4.500	5.000	.00399	.31130	-.15472	-.27348	.13006	-.03441	.14812
4.500	6.000	.00054	.33245	-.16159	-.27169	.13090	-.03536	.14455
4.500	7.000	-.00300	.35508	-.16942	-.27207	.13294	-.03618	.14154
4.500	8.000	-.00809	.37756	-.17552	-.27294	.13581	-.03661	.13839
4.500	9.000	-.01218	.40370	-.18344	-.27391	.13933	-.03701	.13500
4.500	10.000	-.01255	.43155	-.19174	-.27274	.13791	-.03602	.13256
	GRADIENT	.00456	.02164	-.00603	-.00760	.00139	-.00136	-.00359

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AEDC VA-422(1A-37), CRB/ET WRIGHT SSB

(071024) (18 APR 74)

REFERENCE DATA

SRIF = 2890.0000 SQ.FT. XMRP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRIF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRBPOS = .300 RWL = 1.400
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 83/ 0 RWL = 1.31 GRADIENT INTERVAL = -.5.00/ 3.00

MACH	BETA	ALPHA	CN	CLM	CT	CYN	CEL	CA
4.500	-10.000	-.12444	.14833	-.09955	.06906	.01276	.00830	.15739
4.500	-9.000	-.12243	.15699	-.10460	.04114	.02079	.00984	.15318
4.500	-8.000	-.12139	.16499	-.10929	.01018	.03122	.00237	.15493
4.500	-7.000	-.11938	.17037	-.11216	-.02333	.04320	-.00071	.15304
4.500	-6.000	-.11654	.17486	-.11423	-.03963	.05561	-.00402	.15149
4.500	-5.000	-.11292	.17747	-.11467	-.09323	.06747	-.00789	.15375
4.500	-4.000	-.10836	.18123	-.11940	-.12782	.07722	-.01077	.15334
4.500	-3.000	-.10601	.18791	-.11853	-.15931	.08784	-.01357	.15639
4.500	-2.000	-.10331	.19643	-.12239	-.18923	.09831	-.01622	.15761
4.500	-1.000	-.10046	.20266	-.12506	-.22212	.11115	-.01912	.15939
4.500	.000	-.10083	.21247	-.13106	-.25033	.12338	-.02163	.16123
4.500	1.000	-.10381	.22307	-.13971	-.28414	.14369	-.02320	.16532
4.500	2.000	-.11016	.22737	-.14432	-.32775	.16463	-.03046	.17259
4.500	3.000	-.11006	.22942	-.14419	-.37481	.18571	-.03636	.17823
4.500	4.000	-.10701	.23021	-.13960	-.42801	.21075	-.04409	.18314
4.500	5.000	-.09899	.23111	-.12620	-.48236	.23932	-.03432	.18414
4.500	6.000	-.08930	.18309	-.11287	-.53507	.26364	-.06435	.19487
4.500	7.000	-.08435	.17248	-.10532	-.59004	.28183	-.07210	.18703
4.500	8.000	-.08254	.17029	-.10420	-.63041	.29186	-.07695	.18939
4.500	9.000	-.08347	.17430	-.10774	-.66756	.29547	-.08079	.19121
4.500	10.000	-.08166	.18317	-.11202	-.70785	.29911	-.08397	.19324
4.500	GRADIENT	.00041	.00429	-.00264	-.03793	.01679	-.00426	.00324



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AEDC WA-422(1A-57), ORBIT WEIGHT SRB

OTL0023 (18 APR 74)

REFERENCE DATA

0000 = 2000.0000 SQ. FT. 1000 = 1000.0000 IN. XT
 0001 = 1250.0000 IN. 1001 = 1000.0000 IN. YT
 0002 = 1250.0000 IN. 1002 = 1000.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

1-900 = .000 R-900 = 3.000
 80000 = .000 RV/L = 1.700
 PT-JET = .000 BETA = .000

RUN NO. 77/ 0 RV/L = 1.07 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	BETA	ON	QJM	CY	CM	CEL	CA
4.500	-10.000	.00260	-31092	.10240	-.00374	.00116	.00082	.23004
4.500	-9.000	.00296	-28693	.09693	-.00374	.00097	.00047	.22330
4.500	-8.000	.00315	-26338	.09156	-.00413	.00106	.00040	.22407
4.500	-7.000	.00324	-23737	.08460	-.00369	.00078	.00037	.21795
4.500	-6.000	.00338	-20990	.07664	-.00316	.00043	.00022	.21217
4.500	-5.000	.00338	-18217	.06938	-.00335	.00059	.00022	.20525
4.500	-4.000	.00336	-15939	.05978	-.00287	.00023	.00023	.20019
4.500	-3.000	.00367	-12854	.05132	-.00246	-.00013	.00017	.19373
4.500	-2.000	.00375	-10327	.04347	-.00250	-.00018	.00009	.18847
4.500	-1.000	.00379	-07797	.03892	-.00260	-.00019	.00010	.18324
4.500	.000	.00329	-05425	.02901	-.00241	-.00011	.00006	.17913
4.500	1.000	.00303	-03190	.02290	-.00263	.00016	.00007	.17605
4.500	2.000	.00314	-00923	.01715	-.00348	.00039	.00002	.17352
4.500	3.000	.00305	.01323	.01102	-.00398	.00062	-.00016	.17134
4.500	4.000	.00321	.03641	.00404	-.00417	.00050	-.00023	.16921
4.500	5.000	.00360	.05954	-.00305	-.00432	.00036	-.00026	.16694
4.500	6.000	.00447	.08186	-.01012	-.00524	.00030	-.00033	.16374
4.500	7.000	.00595	.10598	-.01747	-.00596	.00023	-.00027	.16070
4.500	8.000	.00763	.13064	-.02324	-.00682	-.00013	-.00013	.15790
4.500	9.000	.00794	.15680	-.03366	-.00737	.00012	-.00012	.15502
4.500	10.000	.00746	.18290	-.04155	-.00649	-.00033	.00002	.15234
GRADIENT		-.00003	.02395	-.00697	-.00015	.00005	-.00005	-.00006

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AEDC VA-62211A-577, ORB/ET WRIGHT 878

02110000 (18 APR 74)

REFERENCE DATA

REF = 2890.0000 50.FT. YMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PROBUEMIC DATA

L-500 = .000 R-500 = 3.000
 SREF00 = .500 R-500 = 1.750
 PT-JET = .000 ALPHA = .000

RUN NO. 78/ 0 RVL = 1.87 GRADIENT INTERVAL = -3.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CT	CTN	CL	CA
4.500	-10.000	-1.3477	-0.5776	.01873	.30329	-.09748	.03484	.19816
4.500	-9.000	-1.12763	-.05864	.02361	.26949	-.08532	.03111	.19474
4.500	-8.000	-1.12058	-.06170	.02400	.23828	-.07492	.02734	.19181
4.500	-7.000	-1.11469	-.06490	.02579	.21263	-.06397	.02379	.18991
4.500	-6.000	-1.10668	-.06794	.02845	.17040	-.05207	.02034	.18859
4.500	-5.000	-1.10321	-.07018	.03061	.13769	-.04414	.01682	.18902
4.500	-4.000	-1.10067	-.07167	.03187	.10324	-.03339	.01280	.19021
4.500	-3.000	-1.09640	-.07388	.03352	.07442	-.02393	.00822	.17514
4.500	-2.000	-1.09236	-.07496	.03486	.04399	-.01460	.00390	.17793
4.500	-1.000	-1.08928	-.07425	.03684	.01333	-.00345	.00230	.17727
4.500	.000	-1.08643	-.07397	.03901	-.01612	.00333	-.00116	.17724
4.500	1.000	-1.08349	-.07324	.03648	-.04532	.01273	-.00433	.17543
4.500	2.000	-1.08130	-.07322	.03687	-.07684	.02196	-.00814	.16121
4.500	3.000	-1.08017	-.07376	.03600	-.10793	.03139	-.01173	.12283
4.500	4.000	-1.07919	-.07343	.03556	-.13983	.04019	-.01499	.10474
4.500	5.000	-1.07969	-.07301	.03443	-.16943	.04880	-.01817	.10500
4.500	6.000	-1.08082	-.07190	.03257	-.20063	.05781	-.02136	.10736
4.500	7.000	-1.08119	-.07099	.03137	-.23414	.06837	-.02488	.10931
4.500	8.000	-1.08113	-.06844	.03008	-.26815	.07948	-.02863	.10193
4.500	9.000	-1.08123	-.06836	.02908	-.30280	.08991	-.03223	.10411
4.500	10.000	-1.08236	-.06832	.02792	-.33930	.10163	-.03539	.10567
4.500		.02264	-.00020	.00043	-.03033	.09923	-.00347	.00031



DATE 29 OCT 74

RTLD027 (18 APR 74)

AEDC VA-422(1A-57), ORB/ET WRIGHT SRB

REFERENCE DATA

SRF = 2690.0000 SA. FT. YARP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 SRF = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRPOS = .300 RV/L = 1.700
 PT-JET = 790.000 BETA = .100

RUN NO. 60/ 0 RV/L = 1.67 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.00262	-.26996	.07075	-.02161	.01275	.00102	.21043
4.500	-9.000	-.00404	-.24412	.06491	-.02687	.01352	.00093	.20767
4.500	-8.000	-.00610	-.21887	.05917	-.03093	.01638	.00073	.20424
4.500	-7.000	-.00829	-.19177	.05214	-.03556	.02140	.00043	.20213
4.500	-6.000	-.01077	-.16137	.04294	-.04093	.02491	-.00019	.19949
4.500	-5.000	-.01413	-.12533	.02920	-.04961	.02967	-.00171	.19731
4.500	-4.000	-.01786	-.08579	.01072	-.05615	.03491	-.00476	.19162
4.500	-3.000	-.02219	-.04423	-.00945	-.06410	.04036	-.00634	.18460
4.500	-2.000	-.02682	-.00317	-.02838	-.07111	.04533	-.01209	.16168
4.500	-1.000	-.03111	.03413	-.04696	-.07761	.05036	-.01566	.17723
4.500	.000	-.03457	.07075	-.06390	-.08357	.05445	-.01690	.17348
4.500	1.000	-.03722	.10609	-.07954	-.08817	.05763	-.02158	.17096
4.500	2.000	-.03929	.13986	-.09322	-.09171	.05967	-.02376	.16827
4.500	3.000	-.03979	.17130	-.10533	-.09367	.06166	-.02531	.16759
4.500	4.000	-.03950	.19895	-.11435	-.09367	.06391	-.02579	.16620
4.500	5.000	-.03966	.21689	-.11732	-.10412	.06595	-.02426	.16468
4.500	6.000	-.03924	.22372	-.11263	-.10798	.06594	-.02064	.15958
4.500	7.000	-.03455	.23996	-.11500	-.11274	.06768	-.02048	.15303
4.500	8.000	-.03592	.26319	-.12236	-.11256	.06923	-.02067	.15135
4.500	9.000	-.03922	.29087	-.13199	-.11607	.07125	-.02180	.14840
4.500	10.000	-.04120	.31566	-.14078	-.11764	.07285	-.02273	.14548
	GRADIENT	-.00266	.03908	-.01531	-.00544	.00360	-.00252	-.00321

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-37), CRD/ET WRIGHT SRB

ORTL028) (18 APR 74)

REFERENCE DATA

SRF = 2000.0000 SQ.FT. YARP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 SREF = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRP03 = .300 RVL = 1.760
 PT-JET = 750.000 ALPHA = .000

RUN NO. 79/ 0 RVL = 1.67 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.1339	-.0176	-.01269	.25977	-.07074	.02768	.18763
4.500	-9.000	-.14961	-.01262	-.01532	.22227	-.05738	.02269	.18292
4.500	-8.000	-.14747	-.00732	-.01694	.18690	-.04476	.01757	.17927
4.500	-7.000	-.14564	-.00231	-.02229	.15140	-.03248	.01255	.17679
4.500	-6.000	-.14350	.00345	-.02565	.11577	-.01965	.00791	.17468
4.500	-5.000	-.14204	.00706	-.02835	.08100	-.00824	.00361	.17235
4.500	-4.000	-.14038	.01106	-.03095	.04952	.00439	-.00102	.17117
4.500	-3.000	-.13880	.01564	-.03349	.01000	.01794	-.00479	.17103
4.500	-2.000	-.13668	.02007	-.03637	-.02343	.03079	-.00867	.17267
4.500	-1.000	-.14000	.02792	-.04217	-.03926	.04345	-.01302	.17190
4.500	.000	-.14158	.03712	-.04844	-.05324	.05396	-.01742	.17265
4.500	1.000	-.14349	.04712	-.05496	-.07110	.06863	-.02206	.17491
4.500	2.000	-.14560	.05629	-.06116	-.08495	.08125	-.02682	.17688
4.500	3.000	-.14886	.06809	-.06934	-.10290	.09464	-.03192	.17679
4.500	4.000	-.15168	.07779	-.07610	-.12346	.10747	-.03654	.18114
4.500	5.000	-.15711	.08818	-.08443	-.14701	.12095	-.04056	.18374
4.500	6.000	-.16234	.09959	-.09337	-.17346	.13373	-.04531	.18579
4.500	7.000	-.16568	.10763	-.09980	-.20219	.14740	-.04956	.18803
4.500	8.000	-.16776	.11779	-.10614	-.23219	.16292	-.05396	.19092
4.500	9.000	-.17063	.12729	-.11257	-.26300	.17654	-.05896	.19392
4.500	10.000	-.17500	.13755	-.11969	-.29414	.19038	-.06462	.19635
4.500	GRADIENT	-.00153	.00638	-.00574	-.03568	.01296	-.00447	.00120



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AEDC VA-422(1A-571) CRB/ET WRIGHT SRB

RTLO220 (16 APR 74)

REFERENCE DATA

SRB = 2690.0000 90.FT. XMRP = 1052.0000 IN. XT
 LRF = 1290.3000 IN. YMRP = .0000 IN. YT
 SRB = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRBPCB = .500 RM/L = 1.700
 PT-JET = 1500.000 BETA = .000

RUN NO. 81/ 0 RM/L = 1.87 GRADIENT INTERVAL = -.500/ 3.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.02298	-.19014	.00218	-.09205	.03582	-.01296	.20862
4.500	-9.000	-.02672	-.10969	-.01436	-.10300	.06244	-.01609	.20615
4.500	-8.000	-.03066	-.06913	-.03110	-.11376	.06906	-.01696	.20248
4.500	-7.000	-.03368	-.02662	-.04837	-.12457	.07530	-.02114	.19816
4.500	-6.000	-.03597	.01483	-.06474	-.13476	.08096	-.02265	.19398
4.500	-5.000	-.03647	.05446	-.07998	-.14425	.08555	-.02331	.19003
4.500	-4.000	-.03772	.09069	-.09403	-.15223	.08971	-.02407	.18581
4.500	-3.000	-.03673	.12664	-.10718	-.15982	.09284	-.02587	.18156
4.500	-2.000	-.03590	.15965	-.11870	-.16974	.09706	-.02347	.17798
4.500	-1.000	-.03466	.18914	-.12955	-.18169	.10225	-.02281	.17454
4.500	.000	-.02903	.21516	-.13769	-.19412	.10569	-.02166	.16934
4.500	1.000	-.02323	.23813	-.14466	-.20365	.10776	-.02203	.16491
4.500	2.000	-.01798	.25644	-.14765	-.20738	.10725	-.02313	.16254
4.500	3.000	-.01624	.27423	-.15143	-.21340	.10927	-.02530	.16137
4.500	4.000	-.01873	.29404	-.15711	-.22068	.11364	-.02810	.16217
4.500	5.000	-.02479	.31263	-.16245	-.22732	.11915	-.03079	.16116
4.500	6.000	-.03129	.33100	-.16734	-.23398	.12468	-.03391	.15863
4.500	7.000	-.03577	.35033	-.17193	-.23666	.12785	-.03609	.15593
4.500	8.000	-.03700	.37050	-.17635	-.23769	.12881	-.03708	.15363
4.500	9.000	-.04191	.39188	-.18172	-.23831	.13089	-.03791	.15087
4.500	10.000	-.04761	.41300	-.18705	-.23982	.13386	-.03880	.14814
	GRADIENT	.00221	.02538	-.00792	-.00861	.00308	-.00050	-.00309

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AEDC VA-422(1A-37), ORBIT WEIGHT SRB

(RTTL030) (16 APR 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. YMRP = 1032.0000 IN. XT
 UREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRBPOS = .300 RV/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 02/ 0 RV/L = 1.87 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CT	CTN	CEL	CA
4.500	-10.000	-.16769	.10522	-.06479	.11635	-.00089	.01206	.16471
4.500	-9.000	-.16139	.10570	-.06363	.09410	.00994	.00699	.16217
4.500	-8.000	-.15532	.10694	-.06260	.09265	.01646	.00573	.16108
4.500	-7.000	-.15039	.11010	-.06326	.02105	.02987	.00293	.16062
4.500	-6.000	-.14848	.11841	-.06776	-.01175	.03993	-.00039	.16062
4.500	-5.000	-.14691	.12937	-.09319	-.04465	.03096	-.00306	.16079
4.500	-4.000	-.14428	.13767	-.09786	-.07968	.06102	-.00791	.16063
4.500	-3.000	-.14396	.14933	-.10486	-.10829	.07014	-.01110	.16049
4.500	-2.000	-.14355	.16050	-.11116	-.14216	.08391	-.01536	.16190
4.500	-1.000	-.14329	.17636	-.12082	-.17237	.09608	-.01933	.16419
4.500	.000	-.15079	.19277	-.13146	-.19990	.10900	-.02434	.17031
4.500	1.000	-.15729	.20532	-.14046	-.23470	.12445	-.02929	.17618
4.500	2.000	-.16235	.21376	-.14697	-.27341	.14260	-.03436	.18432
4.500	3.000	-.16800	.21740	-.16904	-.31969	.16094	-.03867	.18924
4.500	4.000	-.16010	.21577	-.14724	-.36706	.18227	-.04336	.19417
4.500	5.000	-.15274	.20932	-.14092	-.41935	.20463	-.04779	.19372
4.500	6.000	-.14576	.19561	-.13197	-.47622	.23207	-.05476	.19790
4.500	7.000	-.13908	.18293	-.12263	-.53647	.26012	-.06362	.19971
4.500	8.000	-.13332	.17648	-.11763	-.59978	.28128	-.07199	.20190
4.500	9.000	-.13196	.16220	-.12076	-.63679	.29294	-.07846	.20406
4.500	10.000	-.12669	.18939	-.12375	-.68149	.30492	-.08426	.20561
	GRADIENT	-.00179	.00937	-.00600	-.03636	.01321	-.00447	.00410



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ORL0381 (13 APR 74)

AEDC VA-422(1A-57), CRB/ET W/BOOTH 888

REFERENCE DATA

8887 = 2880.0000 IN. FT.
 1747 = 1280.3000 IN.
 8887 = 1280.3000 IN.
 SCALE = .0100

PARAMETRIC DATA

L-888 = 1.000 R-888 = 1.000
 88888 = 1.100 RVL = 1.010
 PT-JET = 1900.000 BETA = .000

RUN NO. 15/ 0 RVL = 1.08 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	.02728	-.17433	-.45680	-.03410	-.00539	-.00044	-.06239
4.500	-9.000	.02909	-.14987	-.46193	-.03310	-.00707	.00016	-.06817
4.500	-8.000	.03135	-.12489	-.46614	-.03089	-.00965	.00070	-.06825
4.500	-7.000	.03762	-.09206	-.46963	-.03473	-.01115	.00093	-.07084
4.500	-6.000	.04189	-.05912	-.46930	-.04274	-.01114	.00074	-.07682
4.500	-5.000	.03968	-.03312	-.47296	-.04338	-.00921	-.00046	-.07903
4.500	-4.000	.02693	-.01430	-.47670	-.03739	-.03290	-.00206	-.07625
4.500	-3.000	.02100	.00688	-.47716	-.03433	-.00020	-.00292	-.07630
4.500	-2.000	.01826	.02611	-.47573	-.02873	-.00089	-.00221	-.07631
4.500	-1.000	.01562	.04980	-.47332	-.02338	-.00030	-.00235	-.07688
4.500	.000	.01410	.06238	-.47432	-.02327	-.00049	-.00194	-.07669
4.500	1.000	.01274	.07992	-.47493	-.02111	-.00034	-.00216	-.07396
4.500	2.000	.01122	.09604	-.47176	-.01934	-.00234	-.00130	-.07732
4.500	3.000	.00768	.11224	-.46860	-.00634	-.00399	-.00061	-.07926
4.500	4.000	.00539	.12811	-.46837	-.00242	-.00422	-.00030	-.08026
4.500	5.000	.00468	.14174	-.46377	-.00303	-.00338	-.00069	-.08238
4.500	6.000	.00446	.15931	-.46293	-.00315	-.00214	-.00137	-.08367
4.500	7.000	.00371	.17937	-.46399	-.00333	-.00147	-.00212	-.08743
4.500	8.000	.00297	.19274	-.46036	-.00395	.00096	-.00322	-.08993
4.500	9.000	.00291	.21371	-.46156	-.00863	.00079	-.00369	-.09244
4.500	10.000	.00385	.23762	-.46330	-.00811	-.00009	-.00360	-.09334
	GRADIENT	-.00289	.01736	.00110	.00426	.00004	.00013	-.00039

AEDC VA-422(1A-57), CRB/JET W/BOTH SRB

(RTL032) (16 APR 74)

REFERENCE DATA

SRP = 2000.0000 SO.FT.
 LRP = 1250.3000 IN.
 SRP = 1250.3000 IN.
 SCALE = .0100

SRP = 1032.0000 IN. XT
 LRP = .0000 IN. YT
 SRP = 447.0000 IN. ZT

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
 SRPQS = 1.100 RV/L = 1.400
 PT-JET = 1900.000 BETA = .000

RUN NO. 14/ 0 RV/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

WAOH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	.01663	-.20900	-.30329	-.03315	.00480	-.00047	-.01545
4.500	-9.000	.01674	-.17730	-.31604	-.02756	.00115	.00044	-.01585
4.500	-8.000	.02313	-.13726	-.32801	-.02395	-.00275	.00134	-.01790
4.500	-7.000	.02238	-.11237	-.33346	-.01688	-.00561	.00216	-.01673
4.500	-6.000	.01617	-.09234	-.33936	-.01499	-.00426	.00151	-.01635
4.500	-5.000	.01206	-.07973	-.33917	-.01523	-.00085	.00020	-.01842
4.500	-4.000	.02340	-.05239	-.33503	-.02698	-.00080	-.00030	-.02462
4.500	-3.000	.01942	-.03933	-.33165	-.02357	.00078	-.00075	-.02661
4.500	-2.000	.01964	-.01437	-.33477	-.02393	.00096	-.00116	-.02767
4.500	-1.000	.01848	.00919	-.33603	-.02616	.00161	-.00116	-.02884
4.500	.000	.01863	.02791	-.33614	-.02248	-.00001	-.00141	-.03012
4.500	1.000	.01745	.04950	-.33691	-.02011	-.00003	-.00149	-.03022
4.500	2.000	.01560	.06771	-.33906	-.01668	-.00091	-.00133	-.03117
4.500	3.000	.01593	.08372	-.34191	-.01401	-.00226	-.00079	-.03231
4.500	4.000	.01897	.10135	-.34363	-.01316	-.00412	-.00011	-.03393
4.500	5.000	.01993	.11953	-.34604	-.01154	-.00528	.00029	-.03538
4.500	6.000	.01990	.13962	-.34998	-.00910	-.00634	.00030	-.03637
4.500	7.000	.01840	.15940	-.35328	-.00609	-.00547	-.00033	-.03713
4.500	8.000	.01865	.18006	-.35538	-.00340	-.00334	-.00072	-.03860
4.500	9.000	.01944	.20036	-.35679	-.00074	-.00196	-.00102	-.03933
4.500	10.000	.02010	.21857	-.35600	-.00074	-.00067	-.00174	-.04131
4.500		.00002	.01992	-.00101	.00120	-.00046	.00001	-.00135

GRADIENT

DATE 28 OCT 74

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(RTLO33) (16 APR 74)

AEDC VA-422(1A-37), CRB/ET W/BOTH 808

REFERENCE DATA

REF = 2000.0000 SQ. FT. 1000 = 1000.0000 IN. XT
 REF = 1200.0000 IN. 1000 = 1000.0000 IN. YT
 REF = 1200.0000 IN. 1000 = 1000.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = 1.000 R-808 = 1.000
 80808 = 1.100 RV/L = 1.200
 PT-JET = 1000.000 ALPHA = .000

RUN NO. 13/ 0 RV/L = 1.50 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	BETA	ALPHA	ON	QJ	CT	CYN	CEL	CA
4.500	-10.000	-.55537	.02157	-.34140	.17402	-.07720	.02570	-.03220
4.500	-9.000	-.55869	-.00139	-.33256	.13706	-.05190	.01780	-.02990
4.500	-8.000	-.57121	-.00903	-.33708	.11489	-.03759	.01360	-.02833
4.500	-7.000	-.58490	-.00837	-.34638	.09195	-.02482	.00934	-.02674
4.500	-6.000	-.59376	-.00385	-.35399	.06960	-.01093	.00584	-.02535
4.500	-5.000	-.59471	-.00319	-.35984	.05146	-.00142	.00260	-.02539
4.500	-4.000	-.59147	-.00443	-.35331	.03694	.00157	.00145	-.02622
4.500	-3.000	-.58217	-.00418	-.35129	.02236	.00226	.00064	-.02726
4.500	-2.000	-.57045	.00733	-.34056	-.00045	.00205	-.00013	-.03325
4.500	-1.000	-.55795	.00736	-.33319	-.02038	.00249	-.00138	-.03696
4.500	.000	-.53443	.00623	-.33370	-.03003	.00254	-.00196	-.03759
4.500	1.000	-.53287	.00492	-.33369	-.03441	.00025	-.00142	-.03927
4.500	2.000	-.52668	.00534	-.33150	-.04347	.00282	-.00248	-.03979
4.500	3.000	-.51931	.00550	-.32870	-.05449	.00701	-.00400	-.03935
4.500	4.000	-.50602	.01502	-.32838	-.06660	.00993	-.00328	-.04035
4.500	5.000	-.49095	.02362	-.32274	-.08076	.01483	-.00702	-.04163
4.500	6.000	-.47628	.02784	-.31946	-.10170	.02567	-.00999	-.04201
4.500	7.000	-.47238	.03176	-.31804	-.12967	.04132	-.01455	-.04206
4.500	8.000	-.46431	.04335	-.32254	-.16060	.06007	-.02047	-.04376
4.500	9.000	-.47896	.04119	-.32916	-.17337	.06208	-.02091	-.04279
4.500	10.000	-.45990	.05153	-.32417	-.19007	.06342	-.02247	-.04375
	GRADIENT	.01002	.00226	.00337	-.01276	.00116	-.00067	-.00172

REPRODUCIBILITY OF THIS
 ORIGINAL PAGE IS 0000

AEDC VA-422(1A-37), CRB/ET W/BOIM 888

GT1034) (18 APR 74)

REFERENCE DATA

BRP = 2880.0000 SQ.FT. YARP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 BRP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
 SRBOS = 1.100 RWL = 1.760
 PT-JET = .000 BETA = .000

RUN NO. S/ O RWL = 1.85 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CV	CIN	COL	CA
4.900	-10.000	.00615	-.30413	.00009	-.00253	-.00031	.00048	.24458
4.900	-9.000	.00600	-.28145	.07740	-.00287	-.00016	.00031	.23847
4.900	-8.000	.00572	-.25794	.07334	-.00221	-.00047	.00035	.23147
4.900	-7.000	.00596	-.23353	.06931	-.00275	-.00040	.00043	.22475
4.900	-6.000	.00584	-.20762	.06286	-.00368	.00001	.00042	.21860
4.900	-5.000	.00523	-.18248	.05730	-.00496	.00090	.00031	.21250
4.900	-4.000	.00461	-.15762	.05159	-.00487	.00090	.00021	.20585
4.900	-3.000	.00421	-.13325	.04603	-.00492	.00099	.00017	.19971
4.900	-2.000	.00411	-.10813	.04024	-.00454	.00075	.00011	.19353
4.900	-1.000	.00430	-.08348	.03471	-.00444	.00042	.00001	.18831
4.900	.000	.00449	-.06014	.02996	-.00441	.00034	.00000	.18417
4.900	1.000	.00432	-.03619	.02475	-.00396	.00001	-.00003	.18026
4.900	2.000	.00476	-.01194	.01894	-.00375	-.00032	-.00006	.17723
4.900	3.000	.00496	.01262	.01279	-.00326	-.00075	-.00006	.17357
4.900	4.000	.00511	.03763	.00636	-.00333	-.00087	-.00008	.16999
4.900	5.000	.00514	.06134	.00062	-.00274	-.00127	-.00012	.16580
4.900	6.000	.00547	.08601	-.00132	-.00293	-.00143	-.00017	.16150
4.900	7.000	.00527	.11276	-.01311	-.00298	-.00144	-.00007	.15704
4.900	8.000	.00471	.14026	-.02392	-.00331	-.00106	-.00001	.15343
4.900	9.000	.00463	.16763	-.02812	-.00378	-.00101	.00022	.15032
4.900	10.000	.00443	.19577	-.03572	-.00336	-.00124	.00036	.14794
4.900	GRADIENT	.00005	.02436	-.00361	.00022	-.00023	-.00004	-.00450



DATE 29 OCT 74

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AEDC VA-422(1A-37), CRB/ET W/BOTH SRS

07TL033) (18 APR 74)

REFERENCE DATA

SREF = 2690.0000 60. FT. XMRP = 1032.0000 IN. YT
 LRFP = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

L-SRS = 1.000 R-SRS = 1.000
 SRS-OS = 1.100 RVL = 1.760
 PT-JET = .000 ALPHA = .000

PARAMETRIC DATA

RUN NO. Q/D RVL = 1.86 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	ALPHA	ON	CLM	CT	CTN	COL	CA
4.500	-10.000	-.14134	-.06815	.02288	.28865	-.08680	.03440	.20107
4.500	-9.000	-.13536	-.06974	.02476	.25363	-.07565	.03041	.19690
4.500	-8.000	-.12967	-.07074	.02633	.22026	-.06499	.02669	.19376
4.500	-7.000	-.12394	-.07196	.02796	.18901	-.05323	.02269	.19433
4.500	-6.000	-.11868	-.07391	.02986	.15564	-.04579	.01913	.19244
4.500	-5.000	-.11464	-.07642	.03140	.12333	-.03613	.01549	.19043
4.500	-4.000	-.11161	-.07876	.03223	.09391	-.02764	.01219	.18774
4.500	-3.000	-.10753	-.07972	.03306	.06601	-.01979	.00896	.18563
4.500	-2.000	-.10312	-.08059	.03396	.03882	-.01254	.00576	.18408
4.500	-1.000	-.09839	-.08067	.03444	.00963	-.00402	.00220	.18259
4.500	.000	-.09631	-.08061	.03462	-.01862	.00439	-.00134	.18361
4.500	1.000	-.09304	-.08092	.03559	-.04575	.01182	-.00472	.18316
4.500	2.000	-.09085	-.07912	.03692	-.07240	.01636	-.00818	.18693
4.500	3.000	-.08848	-.07867	.03551	-.09919	.02457	-.01156	.18876
4.500	4.000	-.08691	-.08004	.03528	-.12373	.03074	-.01446	.18996
4.500	5.000	-.08505	-.08010	.03476	-.15171	.03726	-.01719	.18794
4.500	6.000	-.08394	-.07898	.03336	-.18196	.04575	-.02060	.18919
4.500	7.000	-.08372	-.07742	.03192	-.21358	.05009	-.02407	.18940
4.500	8.000	-.08299	-.07693	.03115	-.24768	.06376	-.02793	.19036
4.500	9.000	-.08276	-.07626	.03013	-.28291	.07632	-.03184	.19275
4.500	10.000	-.08321	-.07554	.02879	-.31862	.08736	-.03576	.19492
	GRADIENT	.00304	-.00019	.00036	-.02752	.00736	-.00333	.00009

DATE 29 OCT 74

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AEDC WA-422(1A-57), CRD/ET W/BOOM SPS

08110000 (18 APR 74)

REFERENCE DATA

SPR = 2690.0000 SQ. FT. XPR = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SPRT = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-908 = 1.000 R-908 = 1.000
 SPRTOS = 1.100 RV/L = 1.760
 PT-JET = 790.000 BETA = .000

RUN NO. 10/ 0 RV/L = 1.88 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	ALPHA	BETA	ON	QUN	CT	CTN	CEL	CA
4.900	-10.000	.01011	-.23290	-.12708	.00740	-.00956	.00293	.06808
4.900	-9.000	.00920	-.21391	-.12732	.00632	-.00946	.00222	.06767
4.900	-8.000	.00736	-.19478	-.12530	.00628	-.00995	.00181	.06699
4.900	-7.000	.00696	-.17641	-.12870	.00696	-.00943	.00143	.06476
4.900	-6.000	.00653	-.15579	-.13053	.00601	-.00969	.00147	.06600
4.900	-5.000	.00622	-.13225	-.12930	.00621	-.00928	.00035	.06493
4.900	-4.000	.00628	-.11217	-.12900	.00472	-.00982	.00082	.06243
4.900	-3.000	.00670	-.09653	-.12824	.00402	-.00176	-.00109	.06992
4.900	-2.000	.00544	-.08010	-.12937	.00440	-.00070	-.00145	.03983
4.900	-1.000	.00755	-.06306	-.13111	.00437	.00028	-.00164	.03753
4.900	.000	.00840	-.04496	-.13404	.00367	.00107	-.00196	.03668
4.900	1.000	.00834	-.02784	-.13399	.00198	.00236	-.00229	.03800
4.900	2.000	.00900	-.01106	-.13708	.00078	.00293	-.00193	.03313
4.900	3.000	.01011	.00371	-.13680	-.00053	.00415	-.00233	.03406
4.900	4.000	.01228	.01641	-.13688	-.00249	.00610	-.00316	.03233
4.900	5.000	.01109	.03378	-.13994	-.00329	.00708	-.00407	.03063
4.900	6.000	.00804	.05433	-.14188	-.00691	.00768	-.00480	.04873
4.900	7.000	.00154	.07814	-.14104	-.00651	.00493	-.00367	.04819
4.900	8.000	.00344	.09662	-.13927	-.00469	.00413	-.00276	.04193
4.900	9.000	.00223	.12283	-.14414	-.00293	.00093	-.00122	.04030
4.900	10.000	.00881	.14962	-.15300	.00367	-.00998	.00201	.04077
4.900	GRADIENT	-.00115	.01670	-.00111	-.00100	.00107	-.00032	-.00124

DATE 29 OCT 74

0811037 (18 APR 74)

AEDC VA-422(1A-37), 078/VT W/BOTH 888

PARAMETRIC DATA

L-878 = 1.000 R-878 = 1.000
SFCFO8 = 1.100 RW/L = 1.780
PT-JET = 750.000 ALPHA = .000

REFERENCE DATA

REF = 2890.0000 84. FT. XMRP = 1032.0000 IN. XT
LREF = 1290.3000 IN. YMRP = .0000 IN. YT
RREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
SCALE = .0100

RUN NO. 7/ 0 RW/L = 1.87 GRADIENT INTERVAL = -.9.00/ 9.00

MACH	BETA	ALPHA	ON	CLM	CT	CTN	CEL	CA
4.500	-10.000	-.37985	-.06871	-.12375	.17321	-.04985	.01408	.06480
4.500	-9.000	-.39062	-.06801	-.12317	.14930	-.05757	.01181	.06039
4.500	-8.000	-.39460	-.07048	-.12355	.12473	-.02836	.00987	.03638
4.500	-7.000	-.38761	-.07193	-.13148	.10353	-.02148	.00847	.03210
4.500	-6.000	-.38859	-.07231	-.13357	.08200	-.01941	.00768	.04934
4.500	-5.000	-.38382	-.07743	-.13016	.07735	-.01587	.00884	.04793
4.500	-4.000	-.37729	-.07975	-.12796	.06377	-.01310	.00620	.04714
4.500	-3.000	-.37493	-.07793	-.12943	.04668	-.01022	.00319	.04867
4.500	-2.000	-.37038	-.07368	-.12976	.33220	-.00812	.00313	.04619
4.500	-1.000	-.36138	-.06283	-.13164	.01469	-.00050	-.00308	.04609
4.500	.000	-.35213	-.05802	-.13024	-.00413	.00729	-.00343	.03058
4.500	1.000	-.35228	-.06120	-.12947	.01160	.01160	-.00506	.03292
4.500	2.000	-.35347	-.06341	-.12859	.01017	.01017	-.00649	.03551
4.500	3.000	-.34327	-.06335	-.12579	.04421	.01182	-.00724	.03821
4.500	4.000	-.33580	-.06459	-.12288	.07057	.01434	-.00823	.03573
4.500	5.000	-.32744	-.06304	-.12074	.09238	.01763	-.00942	.03616
4.500	6.000	-.31322	-.06160	-.11570	.11341	.02169	-.01034	.03645
4.500	7.000	-.29776	-.06435	-.10690	.13708	.02828	-.01146	.03531
4.500	8.000	-.29637	-.07273	-.10120	.16215	.03474	-.01272	.07078
4.500	9.000	-.29825	-.07022	-.10411	.18885	.04157	-.01491	.07297
4.500	10.000	-.29638	-.06386	-.10750	.21862	.04988	-.01766	.07446
	GRADIENT	.00532	.00177	.00070	-.01699	.00392	-.00182	.00116

DATE 28 OCT 74

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AEDC VA-422(1A-57), CRD/ET W/BOOTH 578

(011038) (18 APR 74)

REFERENCE DATA

5000 = 2000.0000 55. FT. 1000 = 1000.0000 IN. XT
 1000 = 1250.0000 IN. 1000 = 1000.0000 IN. YT
 5000 = 1250.0000 IN. 2000 = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SR8 = 1.000 R-SR8 = 1.000
 SR8FO8 = 1.100 SR8VL = 1.700
 PT-SET = 1000.000 BETA = .000

RUN NO. 9/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MA01	ALPHA	BETA	ON	Q.M	CV	CYN	COL	CA
4.500	-10.000	-.00249	-.22396	-.23227	-.03932	.01721	-.00231	-.00725
4.500	-9.000	-.00008	-.20376	-.23710	-.03139	.01253	-.00113	-.00532
4.500	-8.000	.00189	-.17531	-.24679	-.03174	.01206	-.00132	-.00443
4.500	-7.000	.00392	-.14356	-.25824	-.02629	.00992	-.00067	-.00334
4.500	-6.000	.00353	-.11762	-.26461	-.02136	.00670	-.00092	-.00222
4.500	-5.000	-.00022	-.09304	-.27175	-.01797	.00678	-.00163	-.00078
4.500	-4.000	-.00424	-.07268	-.27363	-.01340	.00638	-.00203	-.00196
4.500	-3.000	-.00315	-.05393	-.27803	-.01178	.00533	-.00151	-.00191
4.500	-2.000	.00185	-.03862	-.27507	-.01269	.00601	-.00113	-.00429
4.500	-1.000	.02062	-.01398	-.26701	-.03091	.00532	-.00191	-.01169
4.500	.000	.01590	.02063	-.26331	-.02369	.00606	-.00145	-.01192
4.500	1.000	.01017	.03881	-.26384	-.01725	.00338	-.00121	-.01259
4.500	2.000	.00554	.05543	-.26889	-.01276	.00329	-.00129	-.01496
4.500	3.000	.00209	.06803	-.26906	-.01172	.00437	-.00169	-.01674
4.500	4.000	.00413	.08243	-.26903	-.01392	.00433	-.00230	-.01906
4.500	5.000	.01039	.09844	-.27072	-.01446	.00263	-.00178	-.01968
4.500	6.000	.01637	.11693	-.27366	-.01368	.00093	-.00159	-.02062
4.500	7.000	.01904	.13710	-.27723	-.01369	.00007	-.00163	-.02078
4.500	8.000	.02123	.15381	-.28069	-.01607	.00099	-.00239	-.02083
4.500	9.000	.02513	.17541	-.28306	-.01571	-.00222	-.00267	-.02177
4.500	10.000	.02930	.19232	-.29479	-.01466	-.00430	-.00256	-.02257
4.500	GRADIENT	.00090	.01996	.00067	.00090	-.00032	-.00001	-.00207



DATE 28 OCT 74

OTL(000) (18 APR 74)

AEDC VA-422(1A-57), ORB/ET W/BOOTH 588

REFERENCE DATA

SRF = 2680.0000 SQ.FT. 1000 = 1000.0000 IN. XT
 LREF = 1290.3000 IN. 1000 = 1000.0000 IN. YT
 BREF = 1290.3000 IN. 1000 = 1000.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-200 = 1.000 R-200 = 1.000
 SRP08 = 1.000 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 8/ 0 RV/L = 1.07 GRADIENT INTERVAL = -3.00/ 5.00

MAOH	BETA	ALPHA	ON	CLN	CT	CTN	CL	CA
4.500	-10.000	-.63176	-.01716	-.27285	.16075	-.03482	.01822	-.01125
4.500	-9.000	-.63355	-.01613	-.27427	.13036	-.04059	.01672	-.01003
4.500	-8.000	-.63355	-.02306	-.27314	.11625	-.03935	.01358	-.01031
4.500	-7.000	-.63535	-.05041	-.27133	.09321	-.02743	.00973	-.00939
4.500	-6.000	-.61330	-.03513	-.27403	.07782	-.01793	.00842	-.00810
4.500	-5.000	-.61693	-.03768	-.27563	.06024	-.00640	.00536	-.00886
4.500	-4.000	-.61864	-.03924	-.27895	.04658	-.00175	.00219	-.00815
4.500	-3.000	-.61201	-.03520	-.27691	.03059	.00202	.00135	-.00763
4.500	-2.000	-.60626	-.03411	-.27606	.01631	.00216	.00027	-.00894
4.500	-1.000	-.59756	-.03283	-.27409	.00291	.00366	-.00047	-.00978
4.500	.000	-.58723	-.03152	-.26676	-.02693	.00721	-.00237	-.01776
4.500	1.000	-.58296	-.03074	-.26313	-.04043	.00341	-.00212	-.02037
4.500	2.000	-.53498	-.02807	-.26315	-.04697	.00416	-.00195	-.02175
4.500	3.000	-.52360	-.02413	-.26027	-.05802	.00582	-.00283	-.02312
4.500	4.000	-.51016	-.02031	-.25710	-.06792	.00932	-.00454	-.02210
4.500	5.000	-.49735	-.01701	-.25333	-.08422	.01711	-.00723	-.02345
4.500	6.000	-.49131	.01668	-.25301	-.10824	.02677	-.01085	-.02304
4.500	7.000	-.48669	.01931	-.25960	-.12540	.03494	-.01247	-.02456
4.500	8.000	-.48740	.01132	-.25676	-.13509	.03572	-.01283	-.02238
4.500	9.000	-.48448	.01436	-.25730	-.15393	.04180	-.01593	-.01911
4.500	10.000	-.48454	.02229	-.25193	-.17312	.04961	-.01741	-.01489
4.500	GRADIENT	.01358	.03491	.00246	-.01464	.00162	-.00069	-.00060

REPRODUCTION OF THE
 ORIGINAL PAGE IS POOR

0710400 (18 APR 74)

AEDC VA-422(1A-37), CR8/ET W8CJH S28

REFERENCE DATA

SREF = 2650.0000 50. FT. XREF = 1052.0000 IN. YT
 LREF = 1250.5000 IN. YMRP = .0000 IN. YT
 BRFP = 1250.5000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-S28 = 1.000 P-S28 = 1.000
 SREF08 = 1.000 RV/L = 0.750
 PT-JET = .000 BETA = .000

RUN NO. 3/ 0 RV/L = 0.57 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	BETA	ON	CLM	CV	CRN	CEL	CA
4.500	-10.000	-.03118	-.30594	.06742	-.00002	.00095	.00014	.25360
4.500	-9.000	-.03124	-.28235	.07919	.00214	-.00161	.00053	.23170
4.500	-8.000	-.02374	-.29831	.07438	.00182	-.00191	.00076	.22550
4.500	-7.000	-.02085	-.23417	.06976	-.00034	-.00072	.00071	.21935
4.500	-6.000	-.01512	-.20796	.06397	-.00121	-.00133	.00055	.21253
4.500	-5.000	-.01076	-.16150	.05795	-.00159	-.00139	.00052	.20706
4.500	-4.000	-.00714	-.15700	.05250	-.00127	-.00043	.00052	.20166
4.500	-3.000	-.00129	-.13322	.04751	-.00169	-.00042	.00059	.19955
4.500	-2.000	.00613	-.10506	.04237	-.00255	-.00034	.00053	.19971
4.500	-1.000	.01296	-.08454	.03516	-.00316	-.00032	.00043	.18494
4.500	.000	.01700	-.06043	.03032	-.00274	-.00050	.00053	.17921
4.500	1.000	.01979	-.03613	.02431	-.00203	-.00070	.00028	.17329
4.500	2.000	.02592	-.01146	.01812	-.00161	-.00099	.00013	.17139
4.500	3.000	.03314	.01332	.01166	-.00230	-.00108	.00001	.16762
4.500	4.000	.04109	.03769	.00536	-.00298	-.00133	.00001	.16379
4.500	5.000	.04484	.06242	-.00067	-.00258	-.00129	.00001	.16020
4.500	6.000	.05003	.08735	-.00736	-.00291	-.00124	.00002	.15675
4.500	7.000	.05334	.11397	-.01428	-.00291	-.00138	.00002	.15228
4.500	8.000	.06140	.13994	-.02119	-.00325	-.00140	-.00007	.14865
4.500	9.000	.06576	.16633	-.02814	-.00330	-.00140	-.00004	.14516
4.500	10.000	.06993	.19202	-.03443	-.00330	-.00140	.00011	.14258
	GRADIENT	.00564	.02438	-.00590	-.00009	-.00011	-.00007	-.00459

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NTL0411 (18 APR 74)

AEDC VA-422(1A-57), CRB/ET W/BOTH SRS

PARAMETRIC DATA

REFERENCE DATA

REF = 2880.0000 82.FT. XMRP = 1032.0000 IN. XT
LREF = 1290.3000 IN. YMRP = .0000 IN. YT
RREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
SCALE = .0100

L-SRS = 1.000 R-SRS = 1.000
SRSPOS = 1.100 RV/L = 0.790
PT-JET = .000 ALPHA = .000

GRJN NO. A/D RV/L = 0.96 GRADIENT INTERVAL = -0.00/ 0.00

MACH	BETA	ALPHA	ON	CLJ	CT	CYN	CEL	CA
4.500	-10.000	-4.6387	-0.07481	.02361	.28836	-.08448	.03398	.19799
4.500	-9.000	-4.4393	-.07410	.02477	.27934	-.07923	.03021	.19427
4.500	-8.000	-4.3342	-.07465	.02596	.27096	-.06248	.02794	.19183
4.500	-7.000	-4.1841	-.07443	.02697	.26709	-.05204	.02199	.18894
4.500	-6.000	-4.0369	-.07436	.02829	.26890	-.04392	.01690	.18743
4.500	-5.000	-3.8227	-.07532	.02967	.26900	-.03568	.01561	.18632
4.500	-4.000	-3.5847	-.07636	.03082	.26900	-.02803	.01226	.18486
4.500	-3.000	-3.37633	-.07822	.03224	.26900	-.02022	.00902	.18285
4.500	-2.000	-3.16798	-.08109	.03433	.26900	-.01253	.00567	.18136
4.500	-1.000	-2.9598	-.08208	.03534	.26900	-.00535	.00248	.17936
4.500	.000	-2.7519	-.08297	.03619	.26900	.00208	-.00081	.18144
4.500	1.000	-2.5438	-.08285	.03777	.26900	.00926	-.00416	.18130
4.500	2.000	-2.3358	-.08076	.03930	.26900	.01667	-.00748	.18213
4.500	3.000	-2.1278	-.08094	.04117	.26900	.02392	-.01102	.18417
4.500	4.000	-1.9197	-.08035	.04320	.26900	.03131	-.01446	.18617
4.500	5.000	-1.7116	-.08054	.04531	.26900	.03902	-.01706	.18896
4.500	6.000	-1.5035	-.08032	.04746	.26900	.04621	-.02048	.19222
4.500	7.000	-1.2954	-.08009	.04967	.26900	.05371	-.02423	.19630
4.500	8.000	-1.0873	-.08009	.05186	.26900	.06119	-.02828	.19894
4.500	9.000	-.8792	-.08056	.05406	.26900	.07699	-.03213	.19033
4.500	10.000	-.6711	-.08032	.05627	.26900	.08938	-.03599	.19148
4.500	GRADIENT	.00116	-.00046	.00025	.00000	.00759	-.00330	.00010

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(RTL042) (10 APR 74)

AEDC VA-422(1A-37), CRUJET W/60TH 818

REFERENCE DATA

REF = 2000.0000 SQ. FT. XREF = 1002.0000 IN. XT
 LREF = 1200.0000 IN. YREF = .0000 IN. YT
 BREF = 1200.0000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-508 = 2.000 R-508 = 2.000
 S88P08 = 2.200 RW/L = 1.000
 PT-JET = 1500.000 BETA = .000

RUN NO. 35/ 0 RV/L = 1.07 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.490	-10.000	-.00039	-.04800	-.00873	-.01635	.00341	-.00491	.06337
4.490	-9.000	.00395	-.02997	-.01197	-.02392	.00473	-.00433	.06308
4.490	-8.000	.00907	-.00201	-.01316	-.02161	.00325	-.00410	.06129
4.490	-7.000	.01008	.02028	-.01539	-.02472	.00164	-.00377	.03951
4.490	-6.000	.01613	.04309	-.01871	-.02821	-.00041	-.00300	.03837
4.490	-5.000	.01943	.06316	-.02191	-.03670	.00194	-.00390	.03366
4.490	-4.000	.02210	.08017	-.02269	-.04175	.00306	-.00472	.03164
4.490	-3.000	.02376	.09345	-.02276	-.04390	.00390	-.00475	.04867
4.490	-2.000	.02232	.11261	-.02317	-.04159	.00398	-.00453	.04804
4.490	-1.000	.02025	.12763	-.02375	-.03756	.00404	-.00429	.04217
4.490	.000	.02392	.14358	-.02321	-.03550	.00311	-.00350	.00925
4.490	1.000	.02019	.16136	-.02321	-.03456	.00370	-.00243	.03315
4.490	2.000	.01863	.18230	-.02838	-.02860	.00243	-.00293	.03176
4.490	3.000	.01904	.20469	-.03370	-.02760	.00226	-.00293	.02694
4.490	4.000	.01815	.22533	-.03799	-.02198	.00099	-.00302	.02177
4.490	5.000	.01853	.23998	-.04019	-.02043	.00038	-.00328	.01806
4.490	6.000	.02151	.24969	-.04191	-.02179	-.00068	-.00258	.01499
4.490	7.000	.02633	.26361	-.04612	-.02606	-.00175	-.00238	.01211
4.490	8.000	.02760	.26140	-.05104	-.02718	-.00178	-.00174	.00941
4.490	9.000	.02831	.29391	-.05477	-.02794	-.00131	-.00169	.00827
4.490	10.000	.02912	.30886	-.05900	-.02856	-.00113	-.00178	.00533
4.490	GRADIENT	-.00038	.01777	-.00179	.00216	-.00024	.00018	-.00352



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RTLO43 (18 APR 74)

AEDC VA-422(1A-37), CRB/ET W/BOTH SRS

REFERENCE DATA

SREF = 2000.0000 SQ. FT. 104RP = 1052.0000 IN. XT
 LREF = 1250.0000 IN. Y4RP = .0000 IN. YT
 BREF = 1250.0000 IN. Z4RP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 2.000
 SREF-CR = 2.200 RV/L = 1.400
 PT-JET = 1500.000 BETA = .000

RUN NO. 34/ 0 RV/L = 1.40 GRADIENT INTERVAL = -.5.00/ 5.00

HIGH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	.02427	-.04129	-.03603	-.03063	-.00136	-.00172	.05894
4.500	-9.000	.03070	-.02067	-.03989	-.03184	-.00390	-.00167	.05671
4.500	-8.000	.03773	-.00167	-.04149	-.03306	-.00624	-.00186	.05331
4.500	-7.000	.04573	.01263	-.04268	-.03649	-.00827	-.00221	.05467
4.500	-6.000	.04962	.03113	-.04691	-.03954	-.00992	-.00240	.05303
4.500	-5.000	.05084	.04723	-.04846	-.03710	-.00972	-.00244	.05947
4.500	-4.000	.04617	.06160	-.04914	-.03697	-.00903	-.00343	.06703
4.500	-3.000	.04328	.07432	-.04687	-.03232	-.00733	-.00432	.06409
4.500	-2.000	.03436	.08487	-.04707	-.02790	-.00462	-.00332	.06221
4.500	-1.000	.02721	.09312	-.04502	-.02368	-.00242	-.00314	.07926
4.500	.000	.02453	.10806	-.04337	-.02160	-.00176	-.00484	.07363
4.500	1.000	.02222	.11904	-.04457	-.01921	-.00184	-.00447	.07146
4.500	2.000	.02122	.13656	-.04776	-.01509	-.00247	-.00431	.06947
4.500	3.000	.01634	.14966	-.04763	-.01010	-.00201	-.00400	.06334
4.500	4.000	.01475	.15889	-.04457	-.00952	-.00157	-.00359	.06333
4.500	5.000	.02036	.16395	-.04082	-.01379	-.00150	-.00372	.06067
4.500	6.000	.02701	.17967	-.04076	-.02316	.00096	-.00321	.05797
4.500	7.000	.02864	.20379	-.04647	-.03059	.00313	-.00611	.05487
4.500	8.000	.02836	.23069	-.03266	-.02392	.00137	-.00467	.05117
4.500	9.000	.02812	.25325	-.05691	-.02014	-.00094	-.00330	.04572
4.500	10.000	.02965	.27249	-.05999	-.01807	-.00247	-.00243	.04063
4.500	GRADIENT	-.00362	.01213	.00034	.00296	.00090	-.00003	-.00296

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-57), CRIB/ET W/BOOTH SRB

ORTL040 (16 APR 74)

REFERENCE DATA

SRP = 2090.0000 SQ.FT. YMRP = 1032.0000 IN. XT
 LRP = 1290.3000 IN. YMRP = .0000 IN. YT
 BRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRBPCB = 2.200 RV/L = 1.400
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 33/ 0 RV/L = 1.49 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.00911	.12370	-.04096	.26164	-.05366	.02626	.07357
4.500	-9.000	-.00326	.13267	-.04261	.26940	-.05253	.02602	.07402
4.500	-8.000	.00269	.14187	-.04430	.29932	-.05490	.02935	.07694
4.500	-7.000	.01053	.14985	-.04483	.24906	-.05508	.02591	.07414
4.500	-6.000	.01682	.15484	-.04501	.22842	-.05012	.02845	.07310
4.500	-5.000	.00764	.14596	-.04758	.18939	-.03867	.02512	.07093
4.500	-4.000	-.00415	.13218	-.04679	.13911	-.02705	.02092	.07085
4.500	-3.000	-.01732	.12110	-.05172	.09863	-.01570	.01486	.07268
4.500	-2.000	-.02192	.10324	-.04633	.04139	-.00771	.00653	.07371
4.500	-1.000	-.02021	.09577	-.04291	-.00628	-.00214	-.00131	.07191
4.500	.000	-.01521	.10133	-.04408	-.03068	.00198	-.00849	.06992
4.500	1.000	-.00435	.10752	-.04202	-.09794	.00648	-.01473	.06799
4.500	2.000	.01196	.11600	-.03834	-.14735	.01809	-.02321	.06476
4.500	3.000	.02772	.12450	-.03421	-.19424	.02815	-.02441	.06297
4.500	4.000	.03735	.12975	-.03228	-.23026	.03794	-.02797	.06187
4.500	5.000	.03732	.13314	-.03516	-.24753	.04108	-.02838	.06066
4.500	6.000	.03366	.13062	-.03707	-.26063	.03947	-.02805	.06084
4.500	7.000	.03035	.12825	-.03602	-.27596	.03676	-.02737	.06253
4.500	8.000	.02328	.11988	-.03759	-.25287	.03327	-.02671	.06293
4.500	9.000	.01770	.10693	-.03729	-.30906	.03485	-.02605	.06342
4.500	10.000	.01248	.09630	-.03693	-.32723	.03675	-.02564	.06444
	GRADIENT	.00485	-.00024	.00180	-.04528	.00775	-.00590	-.00126

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RTLD45 (18 APR 74)

AEDC VA-422(1A-37), CRD/ET W/BOTH SRB

REFERENCE DATA

SRF = 2000.0000 80 FT. 1000 = 1000.0000 IN. XT
 LREF = 1250.0000 IN. YREF = .0000 IN. YT
 SRF = 1250.0000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRBPOS = 2.200 RM/L = 1.700
 PT-JET = .000 BETA = .000

RUN NO. 31/ 0 RM/L = 1.63 GRADIENT INTERVAL = -.000/ 5.00

WACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.00131	-.00190	.00179	-.00091	.00170	.00000	.21973
4.500	-9.000	-.00063	-.00072	.07779	-.00446	.00069	.00047	.21727
4.500	-8.000	.00022	-.00001	.07333	-.00432	.00066	.00045	.21213
4.500	-7.000	.00101	-.00004	.06884	-.00366	.00019	.00031	.20609
4.500	-6.000	.00157	-.00022	.06014	-.00276	-.00028	.00021	.20153
4.500	-5.000	.00200	-.00019	.05328	-.00371	.00013	.00012	.19743
4.500	-4.000	.00263	-.00066	.04395	-.00339	-.00007	.00016	.19163
4.500	-3.000	.00284	-.00061	.03946	-.00317	-.00009	.00013	.18776
4.500	-2.000	.00319	-.00076	.03310	-.00306	-.00009	.00009	.18469
4.500	-1.000	.00337	-.00079	.02371	-.00306	-.00009	.00006	.18079
4.500	.000	.00391	-.00012	.02074	-.00294	-.00011	.00006	.17613
4.500	1.000	.00419	-.00049	.01192	-.00293	-.00007	.00003	.17223
4.500	2.000	.00456	.00191	.00094	-.00294	-.00006	-.00004	.17316
4.500	3.000	.00517	.04194	-.00096	-.00332	.00013	-.00026	.17103
4.500	4.000	.00618	.07022	-.00277	-.00411	.00016	-.00043	.16931
4.500	5.000	.00717	.09623	-.00288	-.00464	.00017	-.00053	.16774
4.500	6.000	.00849	.12136	-.00379	-.00519	.00003	-.00048	.16523
4.500	7.000	.01056	.14424	-.04466	-.00615	-.00018	-.00038	.16238
4.500	8.000	.01272	.16626	-.05010	-.00681	-.00059	-.00003	.15959
4.500	9.000	.01321	.18875	-.05543	-.00731	-.00040	.00003	.15641
4.500	10.000	.01344	.21172	-.06120	-.00837	-.00069	.00002	.15393
	GRADIENT	.00045	.00254	-.00027	-.00008	.00002	-.00007	-.00287

ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-37), CRG/ET W/BOIM 808

0711040 (16 APR 74)

REFERENCE DATA

WREF = 2000.0000 IN. FT. YREF = 1052.0000 IN. XT
 WREF = 1200.0000 IN. YREF = .0000 IN. YT
 WREF = 1200.0000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = 2.000 R-808 = 2.000
 SR808 = 2.200 RV/L = 1.700
 PT-JET = .000 ALPHA = .000

RUN NO. 32/ 0 RV/L = 1.84 GRADIENT INTERVAL = -.001/ 5.00

WACH	BETA	ALPHA	ON	CLM	CT	CYN	CZL	CA
4.500	-10.000	-.13453	-.03668	.00669	.29953	-.09477	.03411	.20105
4.500	-9.000	-.12776	-.04117	.00971	.26422	-.06304	.02993	.19745
4.500	-8.000	-.12078	-.04397	.01268	.23057	-.07230	.02626	.19367
4.500	-7.000	-.11422	-.04738	.01634	.19763	-.06250	.02283	.19030
4.500	-6.000	-.10802	-.05151	.01985	.16722	-.05345	.01930	.18726
4.570	-5.000	-.10421	-.05498	.02185	.13982	-.04418	.01597	.18269
4.500	-4.000	-.10012	-.05726	.02359	.10438	-.03407	.01217	.18052
4.500	-3.000	-.09568	-.06014	.02603	.07406	-.02486	.00930	.17932
4.500	-2.000	-.09180	-.06100	.02720	.04563	-.01525	.00581	.17764
4.500	-1.000	-.08941	-.06014	.02676	.01332	-.00596	.00227	.17639
4.500	.000	-.08772	-.05943	.02610	-.01638	.00330	-.00112	.17487
4.500	1.000	-.08539	-.05935	.02638	-.04640	.01253	-.00438	.17340
4.500	2.000	-.08416	-.05911	.02654	-.07639	.02156	-.00767	.17222
4.500	3.000	-.08393	-.05748	.02600	-.10640	.03036	-.01133	.16167
4.500	4.000	-.08379	-.05673	.02537	-.13634	.03977	-.01452	.16481
4.500	5.000	-.08351	-.05553	.02332	-.16531	.04693	-.01763	.16844
4.500	6.000	-.08348	-.05177	.01986	-.19313	.05495	-.02078	.16777
4.500	7.000	-.08030	-.05027	.01783	-.22743	.06486	-.02434	.16961
4.500	8.000	-.08168	-.04705	.01517	-.26103	.07533	-.02803	.19208
4.500	9.000	-.08344	-.04502	.01315	-.29687	.08649	-.03191	.19450
4.500	10.000	-.08571	-.04329	.01097	-.33409	.09847	-.03638	.19729
	GRADIENT	.00194	.00012	.00014	-.05008	.00913	-.00333	.00056



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0110477 (18 APR 74)

ASDC VA-422(1A-37), CRB/ET W/BOIM SRB

REFERENCE DATA

SRF = 2490.0000 30. FT. YMRP = 1052.0000 IN. XT
 LRF = 1290.3000 IN. YMRP = .0000 IN. YT
 PRF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRP08 = 2.200 RV/L = 1.760
 PT-JET = 750.000 BETA = .000

RUN NO. 30/ 0 RV/L = 1.64 GRADIENT INTERVAL = -3.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CT	CYN	CL	CA
4.500	-10.000	-.00449	-.19828	.03765	-.01556	.00775	.00213	.17598
4.500	-9.000	-.00190	-.12686	.02853	-.01170	.00505	.00187	.16917
4.500	-8.000	-.00094	-.10694	.02185	-.00954	.00374	.00106	.16482
4.500	-7.000	-.00222	-.08541	.01437	-.00668	.00309	.00060	.16075
4.500	-6.000	.00243	-.06420	.00633	-.00740	.00167	.00027	.15868
4.500	-5.000	.01044	-.03989	-.00312	-.01317	.00131	-.00020	.15437
4.500	-4.000	.01061	-.01705	-.01113	-.01168	.00061	-.00007	.14972
4.500	-3.000	.01097	.00551	-.01901	-.01054	.00016	-.00011	.14560
4.500	-2.000	.01125	.02774	-.02670	-.00922	-.00043	-.00036	.14171
4.500	-1.000	.00883	.05187	-.03490	-.00742	-.00013	-.00068	.13705
4.500	.000	.00875	.07325	-.04156	-.00690	-.00017	-.00078	.13275
4.500	1.000	.00900	.09749	-.04705	-.00585	-.00061	-.00116	.12857
4.500	2.000	.01124	.11542	-.05042	-.00560	-.00148	-.00144	.12435
4.500	3.000	.01274	.12986	-.05216	-.00434	-.00254	-.00164	.12011
4.500	4.000	.01393	.13934	-.05158	-.00210	-.00595	-.00152	.11528
4.500	5.000	.01478	.14878	-.05062	.00079	-.00553	-.00120	.11035
4.500	6.000	.01454	.16072	-.05073	.00224	-.00596	-.00062	.10623
4.500	7.000	.01420	.17395	-.05210	.00235	-.00571	-.00068	.10299
4.500	8.000	.01486	.19446	-.05505	.00269	-.00598	-.00003	.10094
4.500	9.000	.01872	.21534	-.05906	.00364	-.00789	.00059	.10112
4.500	10.000	.02297	.23317	-.06184	.00540	-.01036	.00060	.10155
4.500	GRADIENT	.00036	.01966	-.05508	.00123	-.00057	-.00016	-.00434

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AEDC VA-422(1A-37), CRB/ET W/BOOTH 888

0810483 (16 APR 74)

REFERENCE DATA

REF = 2890.0000 50. FT. XMRP = 1032.0000 IN. XT
 UREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-388 = 2.000 R-578 = 2.000
 SR8P08 = 2.203 RW/L = 1.760
 PT-JET = 750.000 ALPHA = .000

RUN NO. 29/ 0 RW/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	C1	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13562	-.10498	-.02109	.22488	-.03434	.02079	.14250
4.500	-9.000	-.13242	.00353	-.02530	.17987	-.03761	.01544	.14033
4.500	-8.000	-.12830	.01247	-.02983	.14712	-.02809	.01297	.13603
4.500	-7.000	-.11888	.02100	-.03176	.12194	-.02301	.01057	.13278
4.500	-6.000	-.11136	.02915	-.03326	.09669	-.01942	.00894	.13030
4.500	-5.000	-.10325	.04102	-.03754	.07623	-.01676	.00793	.12948
4.500	-4.000	-.09858	.05039	-.04006	.05676	-.01500	.00729	.12938
4.500	-3.000	-.09107	.05691	-.04079	.03801	-.01134	.00592	.12918
4.500	-2.000	-.08392	.05905	-.03897	.01961	-.00590	.00326	.12910
4.500	-1.000	-.07918	.05651	-.03673	.00053	-.00051	.00039	.13023
4.500	.000	-.07735	.04968	-.03390	-.01319	.00291	-.00207	.13059
4.500	1.000	-.07623	.03936	-.02914	-.03171	.00424	-.00403	.13327
4.500	2.000	-.08006	.02737	-.02432	-.04430	.00434	-.00469	.13575
4.500	3.000	-.08107	.01421	-.01922	-.03988	.00721	-.00530	.13693
4.500	4.000	-.08312	.00224	-.01513	-.07091	.01090	-.00520	.13760
4.500	5.000	-.08573	-.00943	-.01190	-.09185	.01984	-.00639	.13959
4.500	6.000	-.08774	-.02045	-.00786	-.12078	.02407	-.00616	.13990
4.500	7.000	-.08835	-.02566	-.00718	-.17220	.03659	-.01337	.13610
4.500	8.000	-.08539	-.02674	-.00750	-.22981	.04787	-.01912	.13155
4.500	9.000	-.08484	-.02660	-.00836	-.27246	.05369	-.02276	.13003
4.500	10.000	-.08497	-.02853	-.00818	-.30983	.06168	-.02563	.13140
	GRADIENT	.00180	-.00388	.00299	-.01628	.00316	-.00159	.00107



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AEDC VA-422(1A-57), CRB/ET W/BOOTH 878

RTLD49 (18 APR 74)

REFERENCE DATA

8227 = 2880.0000 SQ.FT. 1968P = 1052.0000 IN. XT
 1968P = 1290.9700 IN. 1968P = .0000 IN. YT
 8227 = 1290.9700 IN. 1968P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = 2.000 R-508 = 2.000
 908P08 = 2.200 RV/L = 1.750
 PT-JET = 1.900.000 BETA = .000

RUN NO. 28/ 0 RV/L = 1.84 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CT	CTN	CL	CA
4.500	-10.000	.02714	-.07579	-.02039	-.03705	.00497	-.00070	.12170
4.500	-9.000	.03653	-.05732	-.02368	-.04097	.00316	-.00060	.12130
4.500	-8.000	.04750	-.03919	-.03093	-.04903	.00077	-.00026	.11968
4.500	-7.000	.04750	-.01961	-.03353	-.04290	-.00020	.00011	.11672
4.500	-6.000	.04991	.00116	-.04238	-.03739	-.00176	.00001	.11478
4.500	-5.000	.03990	.02549	-.04602	-.02809	-.00366	.00017	.10973
4.500	-4.000	.03221	.04609	-.05043	-.01914	-.00461	-.00029	.10374
4.500	-3.000	.02792	.06136	-.05043	-.01415	-.00901	-.00098	.09969
4.500	-2.000	.02385	.07773	-.05210	-.01225	-.00411	-.00136	.09632
4.500	-1.000	.01416	.09611	-.05398	-.00750	-.00232	-.00199	.09199
4.500	.000	.00896	.11216	-.05320	-.00467	-.00126	-.00217	.08850
4.500	1.000	.01176	.12606	-.05359	-.00359	-.00160	-.00219	.08563
4.500	2.000	.02115	.13990	-.05319	-.01153	-.00261	-.00192	.08274
4.500	3.000	.02571	.15632	-.05459	-.01317	-.00351	-.00159	.07911
4.500	4.000	.02231	.17620	-.05821	-.00869	-.00420	-.00124	.07504
4.500	5.000	.02206	.19787	-.06442	-.00865	-.00474	-.00133	.07030
4.500	6.000	.02392	.22231	-.07287	-.00732	-.00467	-.00150	.06434
4.500	7.000	.02328	.24186	-.07839	-.00717	-.00479	-.00203	.05986
4.500	8.000	.02489	.25456	-.07881	-.00558	-.00607	-.00234	.05504
4.500	9.000	.02766	.26206	-.07477	-.00606	-.00682	-.00212	.05140
4.500	10.000	.02964	.27010	-.07020	-.00553	-.00775	-.00163	.04758
	GRADIENT	-.00129	.01656	-.00121	.00140	.00004	-.00013	-.00367

ORIGINAL PAGE IS POOR

AEDC VA-422(11A-37), CRB/ET W/BOTH S18

GR110500 (16 APR 74)

REFERENCE DATA

REF = 2690.0000 SA.FT. XREF = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YREF = .0000 IN. YT
 SREF = 1290.3000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRBPOS = 2.200 RW/L = 1.760
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 25/ 0 RW/L = 1.84 GRADIENT INTERVAL = -.5.00/ 5.00

MAOI	BETA	ALPHA	ON	QJH	CV	CYN	CEL	CA
4.500	-10.000	-.03235	.09441	-.03349	.26971	-.03211	.02211	.08664
4.500	-9.000	-.02856	.09695	-.03723	.24715	-.04701	.02035	.08396
4.500	-8.000	-.02928	.09807	-.03886	.22993	-.04481	.01965	.08399
4.500	-7.000	-.02622	.09888	-.03846	.20307	-.04196	.01861	.08406
4.500	-6.000	-.02275	.10023	-.03769	.18408	-.03793	.01675	.08821
4.500	-5.000	-.02233	.10498	-.03992	.15952	-.03086	.01400	.09927
4.500	-4.000	-.02355	.11061	-.04427	.12710	-.02297	.01103	.09269
4.500	-3.000	-.03598	.11195	-.03727	.09082	-.01290	.00825	.09483
4.500	-2.000	-.03266	.11003	-.03925	.04677	-.00295	.00416	.02978
4.500	-1.000	-.03167	.10358	-.03837	.00340	-.00008	-.00107	.08431
4.500	.000	-.04042	.09146	-.04618	-.04108	.00030	-.00303	.08398
4.500	1.000	-.02421	.08282	-.03382	-.09324	.00003	-.00764	.05948
4.500	2.000	-.01992	.07930	-.03090	-.13249	.01347	-.01072	.08244
4.500	3.000	-.01932	.08106	-.03280	-.15969	.02220	-.01432	.08384
4.500	4.000	-.02145	.08186	-.03348	-.16210	.02843	-.01747	.09332
4.500	5.000	-.02273	.08163	-.03726	-.20797	.03330	-.01959	.08106
4.500	6.000	-.01925	.08328	-.03795	-.23251	.03602	-.02022	.07897
4.500	7.000	-.01623	.08399	-.03726	-.25690	.03626	-.01999	.07817
4.500	8.000	-.01449	.08381	-.03694	-.27999	.03630	-.01986	.07919
4.500	9.000	-.01324	.08178	-.03568	-.30139	.03834	-.02064	.08020
4.500	10.000	-.01311	.07262	-.03135	-.32492	.04131	-.02296	.08103
4.500	GRADIENT	.00143	-.00371	.00166	-.03882	.00614	-.00351	-.00093

MEDC VA-422(1A-37), CRU/ET W/BOOTH 8803

PARAMETRIC DATA

L-2000	=	2.000	R-200	=	2.000
SR2000	=	2.250	RAVL	=	2.000
PT-JET	=	1500.000	BE7A	=	.000

PLAN NO. 23/0 RWL = 2.23 GRADIENT INTERVAL = -3.00/ 3.00

MAO	ALPHA	BETA	ON	GLM	CY	CYN	COL	CA
4.500	-10.000	.03250	-.10504	-.00746	-.03215	.00470	.00096	.13607
4.500	-9.000	.03302	-.06276	-.01446	-.03095	.00399	.00096	.13473
4.500	-8.000	.03311	-.05939	-.02160	-.03169	.00357	.00020	.13496
4.500	-7.000	.03114	-.03070	-.02776	-.02562	.00280	.00000	.12594
4.500	-6.000	.03232	-.00680	-.03223	-.02390	.00077	-.00074	.12777
4.500	-5.000	.03146	.01752	-.03626	-.02093	-.00037	-.00109	.12159
4.500	-4.000	.02133	.04162	-.03996	-.01398	-.00057	-.00120	.11615
4.500	-3.000	.01559	.06073	-.04233	-.00946	-.00053	-.00124	.11024
4.500	-2.000	.01461	.07918	-.04472	-.00765	-.00106	-.00118	.10737
4.500	-1.000	.01449	.10015	-.04766	-.00413	-.00276	-.00069	.10358
4.500	.000	.01625	.12177	-.03162	-.00228	-.00427	-.00067	.09910
4.500	1.000	.01617	.13936	-.03466	-.00124	-.00477	-.00091	.09402
4.500	2.000	.01676	.15010	-.03445	-.00148	-.00468	-.00101	.08847
4.500	3.000	.01576	.15895	-.03299	-.00206	-.00427	-.00159	.08319
4.500	4.000	.01635	.16670	-.03125	-.00257	-.00437	-.00172	.07915
4.500	5.000	.01846	.17791	-.03264	-.00136	-.00362	-.00147	.07690
4.500	6.000	.02204	.19291	-.03635	-.00136	-.00369	-.00105	.07476
4.500	7.000	.02464	.21064	-.05196	-.00074	-.00612	-.00136	.07097
4.500	8.000	.02439	.22975	-.06961	-.00291	-.00704	-.00101	.06590
4.500	9.000	.02370	.24980	-.07153	-.00503	-.00803	-.00215	.05921
4.500	10.000	.02593	.25742	-.07053	-.00213	-.00905	-.00214	.05370
4.500		-.00072	.01615	-.00169	.00163	-.00057	-.00004	-.00447
	GRADIENT							

REPRODUCIBILITY OF THE ORIGINAL RECORDS

DATE 29 OCT 74

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AEDC VA-422 (1A-57), CRB/ET W/BOTH SRB

(RTLO32) (18 APR 74)

REFERENCE DATA

SRF = 2890.0000 SQ.FT. YMRP = 1092.0000 IN. XT
 LREF = 1290.5000 IN. YMRP = .0000 IN. YT
 SRF = 1290.5000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRPOS = 2.200 RW/L = 2.900
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 24/ 0 RW/L = 2.23 GRADIENT INTERVAL = -3.00/ 5.00

MAOH	BETA	ALPHA	ON	CLH	CT	CIN	CEL	CA
4.500	-10.000	-.06336	.04310	-.02115	.26241	-.05323	.01974	.10027
4.500	-9.000	-.07528	.04008	-.02217	.22953	-.04732	.01745	.10071
4.500	-8.000	-.07359	.03576	-.02015	.19630	-.04196	.01438	.10063
4.500	-7.000	-.07030	.03876	-.02376	.16168	-.03532	.01159	.10149
4.500	-6.000	-.07159	.04786	-.02612	.11254	-.02253	.00711	.10290
4.500	-5.000	-.07102	.06064	-.03295	.07408	-.01492	.00463	.10243
4.500	-4.000	-.06393	.07381	-.03963	.04311	-.00598	.00248	.10075
4.500	-3.000	-.05745	.08932	-.04399	.02264	-.00431	.00041	.09872
4.500	-2.000	-.04844	.10415	-.04889	.00497	-.00324	-.00093	.09619
4.500	-1.000	-.04339	.11015	-.05114	-.00302	-.00217	-.00071	.09683
4.500	.000	-.04741	.09157	-.04292	-.01005	-.00263	-.00078	.09923
4.500	1.000	-.03207	.07509	-.03668	-.02874	-.00130	-.00137	.10012
4.500	2.000	-.03890	.05835	-.03095	-.05102	.00335	-.00285	.10316
4.500	3.000	-.06802	.04114	-.02547	-.08082	.01028	-.00487	.10449
4.500	4.000	-.06613	.02610	-.01891	-.12328	.02045	-.00853	.10292
4.500	5.000	-.05353	.01695	-.01439	-.16335	.02771	-.01141	.10058
4.500	6.000	-.05976	.01689	-.01379	-.19456	.03260	-.01412	.09873
4.500	7.000	-.05677	.02703	-.01873	-.25067	.03753	-.01771	.09645
4.500	8.000	-.05144	.03502	-.02150	-.26259	.04054	-.02057	.09490
4.500	9.000	-.04643	.03938	-.02216	-.28397	.04201	-.02171	.09314
4.500	10.000	-.04363	.04044	-.02191	-.31010	.04401	-.02304	.09423
4.500		-.00023	-.00628	.00232	-.02100	.00363	-.00131	.00029

GRADIENT

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011033 (18 APR 74)

AEDC VA-422(1A-37), CRU/ET W/BOOM 808

REFERENCE DATA

REF = 2890.0000 SQ. FT. 196P = 1032.0000 IN. XT
 LREF = 1290.3000 IN. 196P = .0000 IN. YT
 WREF = 1290.3000 IN. 206P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-378 = 3.000 R-379 = 3.000
 903703 = 3.300 PW/L = 1.000
 PT-ET = 1900.000 BETA = .000

RUN NO. 58/ 0 PW/L = 1.00 GRADIENT INTERVAL = -3.00/ 5.00

MAGN	ALPHA	BETA	ON	CLM	CT	CTN	COL	CA
4.490	-10.000	.00136	.24333	-.17028	-.03069	.01141	-.00060	.10294
4.490	-9.000	.00602	.25661	-.17091	-.03044	.00931	-.00046	.10273
4.490	-8.000	.00943	.27379	-.17632	-.03001	.00669	-.00107	.10122
4.490	-7.000	.00843	.29540	-.18253	-.02707	.00333	-.00133	.09693
4.490	-6.000	.00771	.31735	-.19068	-.02372	.00471	-.00224	.09315
4.490	-5.000	.00777	.34392	-.20104	-.01614	.00127	-.00213	.09252
4.490	-4.000	.00956	.36832	-.20742	-.00037	-.00634	-.00172	.09222
4.490	-3.000	.01030	.39302	-.21297	.01743	-.01620	.00236	.09136
4.490	-2.000	.00414	.41773	-.22246	.02334	-.01445	.00393	.09121
4.490	-1.000	.00034	.44610	-.23351	.02776	-.01367	.00433	.08833
4.490	.000	-.00270	.48063	-.25033	.02061	-.00791	.00393	.08637
4.490	1.000	.00019	.51001	-.26227	.00661	-.00290	.00300	.08624
4.490	2.000	.00302	.53576	-.27026	-.00060	-.00094	.00259	.08316
4.490	3.000	.00674	.55908	-.27790	-.00292	-.00227	.00240	.08045
4.490	4.000	.01030	.57941	-.28233	-.00742	-.00234	.00221	.08033
4.490	5.000	.01171	.60093	-.28923	-.00206	-.00567	.00166	.08009
4.490	6.000	.01500	.61863	-.29222	-.00132	-.00609	.00010	.08139
4.490	7.000	.01727	.63464	-.29338	.00693	-.01345	-.00236	.08230
4.490	8.000	.01911	.65226	-.30069	.01699	-.01940	-.00275	.08415
4.490	9.000	.02124	.66743	-.30373	.02444	-.02429	-.00174	.08394
4.490	10.000	.02312	.68492	-.30674	.02560	-.02993	.00031	.08385
4.490	GRADIENT	.00012	.02667	-.00937	-.00079	.00036	.00027	-.00037

0010340 (1% APR 74)

AEDC VA-422(1A-57) . CRD/ET W/BOOTH SRB

REFERENCE DATA

SRP = 2880.0000 36. FT. XMRP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP08 = 3.000 RVL = 3.600
 PT-JET = 1500.000 SETA = .000

RUN NO. 95/ 0 RVL = 1.48 GRADIENT INTERVAL = -.500/ 3.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.00005	.17000	-.15684	-.01367	.00374	.00125	.14437
4.500	-9.000	.00024	.19085	-.16076	-.01536	.00462	.00062	.13923
4.500	-8.000	.00036	.20638	-.16491	-.01679	.00534	.00068	.13153
4.500	-7.000	.00263	.22886	-.17123	-.01797	.00525	.00043	.12441
4.500	-6.000	.00360	.24793	-.17643	-.01813	.00479	.00053	.11793
4.500	-5.000	.00557	.26837	-.18330	-.01947	.00353	.00136	.11191
4.500	-4.000	.00331	.28673	-.18964	-.02023	-.00073	.00149	.10698
4.500	-3.000	-.00021	.30633	-.19478	.00213	-.00174	.00170	.10437
4.500	-2.000	-.00333	.33918	-.20377	.07774	-.00243	.00194	.10211
4.500	-1.000	-.00092	.38333	-.22937	.17263	-.00118	.00253	.09953
4.500	.000	.00260	.42128	-.24933	.00002	-.00132	.00368	.10119
4.500	1.000	.00337	.45369	-.25947	-.00304	-.00002	.00353	.10374
4.500	2.000	.00726	.48015	-.27216	-.00823	.00061	.00321	.10593
4.500	3.000	.00560	.50381	-.28174	-.00339	.00038	.00249	.10824
4.500	4.000	.00425	.52690	-.29146	.00223	-.00216	.00131	.11193
4.500	5.000	.00317	.54618	-.29798	.01151	-.00684	.00009	.11293
4.500	6.000	.00389	.57169	-.30791	.01633	-.00824	-.00022	.11616
4.500	7.000	.00423	.59742	-.31617	.01814	-.00921	-.00166	.11792
4.500	8.000	.00213	.62648	-.32968	.02033	-.00972	-.00324	.11931
4.500	9.000	-.00077	.65624	-.34159	.02099	-.00703	-.00492	.12132
4.500	10.000	.00040	.68416	-.35009	.01975	-.00693	-.00453	.11933
	GRADIENT	.00034	.02395	-.01272	.00262	-.00023	.00003	.00547

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PAGE 33

AEDC VI-422(1A-57), ORBIT W/BOTH SRB

(RTLOSS) (16 APR 74)

REFERENCE DATA

SRF = 2000.0000 90 FT. YARP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 SRF = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP08 = 3.500 RM/L = 1.400
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 34/ 0 RM/L = 1.40 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.10875	.31431	-.18039	.31215	-.13414	.03830	.14042
4.500	-9.000	-.10443	.31937	-.18323	.28142	-.11036	.03233	.13367
4.500	-8.000	-.10198	.32655	-.18803	.21577	-.08809	.02339	.12617
4.500	-7.000	-.09930	.33301	-.19276	.17211	-.06759	.01631	.11790
4.500	-6.000	-.09574	.34357	-.19840	.13306	-.04955	.01222	.11126
4.500	-5.000	-.09072	.35727	-.20442	.08733	-.03466	.00794	.10448
4.500	-4.000	-.08608	.37016	-.21066	.04632	-.02202	.00338	.10239
4.500	-3.000	-.08178	.37947	-.21636	.04328	-.01361	.00084	.09881
4.500	-2.000	-.08749	.38390	-.22240	.02143	-.00682	.00323	.09379
4.500	-1.000	-.09173	.38821	-.22827	.00677	-.00377	.00303	.09223
4.500	.000	-.09324	.39236	-.23366	-.00322	.00254	.00216	.09264
4.500	1.000	-.09346	.39680	-.23885	-.02896	.00979	.00006	.09674
4.500	2.000	-.09123	.35536	-.21271	-.05170	.01685	-.02203	.10215
4.500	3.000	-.08889	.34422	-.20576	-.08247	.02869	-.00497	.10702
4.500	4.000	-.08427	.32841	-.19306	-.12034	.04627	-.00912	.11193
4.500	5.000	-.08162	.31187	-.18487	-.16948	.07243	-.01559	.11857
4.500	6.000	-.07963	.29327	-.17461	-.22350	.10133	-.02422	.12708
4.500	7.000	-.07939	.28353	-.16924	-.27307	.12350	-.03196	.13372
4.500	8.000	-.08171	.26339	-.16883	-.32435	.14519	-.03936	.13748
4.500	9.000	-.08532	.26103	-.17127	-.37098	.15904	-.04439	.14053
4.500	10.000	-.08597	.26037	-.17246	-.42099	.16803	-.04638	.14248
	GRADIENT	.00034	-.00327	.00199	-.02401	.00906	-.00196	.00128

AEDC VA-422(1A-97), CRB/JET W/BOOM SRB

(RTT036) (16 APR 74)

REFERENCE DATA

SRP = 2680.0000 82.FT.
 LRP = 1290.3000 IN.
 SRP = 1290.3000 IN.
 SCALE = .0100

MRP = 1052.0000 IN. XT
 YMRP = .0000 IN. YT
 ZMRP = 447.0000 IN. ZT

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RV/L = 1.760
 P/C-JET = .000 BETA = .000

RUN NO. 52/ 0 RV/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	QJN	CY	CYN	CEL	CA
4.500	-10.000	-.00418	-.29469	.00942	-.00925	.00117	.00037	.20346
4.500	-9.000	-.00326	-.27343	.00305	-.00416	.00098	.00039	.20337
4.500	-8.000	-.00225	-.24904	.07749	-.00480	.00060	.00039	.19607
4.500	-7.000	-.00117	-.22431	.07131	-.00479	.00063	.00031	.19250
4.500	-6.000	-.00044	-.19757	.06402	-.00434	.00047	.00021	.18668
4.500	-5.000	.00040	-.16965	.05532	-.00447	.00051	.00016	.17991
4.500	-4.000	.00136	-.14262	.04669	-.00401	.00021	.00012	.17287
4.500	-3.000	.00219	-.11628	.03841	-.00339	-.00011	.00007	.16340
4.500	-2.000	.00320	-.09169	.03091	-.00337	-.00022	-.00001	.15969
4.500	-1.000	.00425	-.06624	.02313	-.00369	-.00019	-.00005	.15382
4.500	.000	.00457	-.04203	.01591	-.00374	.00002	-.00003	.14962
4.500	1.000	.00501	-.01824	.00875	-.00401	.00028	-.00009	.14295
4.500	2.000	.00562	.00464	.00239	-.00435	.00043	-.00012	.13752
4.500	3.000	.00637	.02456	-.00219	-.00467	.00068	-.00030	.13335
4.500	4.000	.00764	.04334	-.00587	-.00504	.00055	-.00062	.13271
4.500	5.000	.00902	.06293	-.01021	-.00541	.00035	-.00051	.13290
4.500	6.000	.01078	.08230	-.01488	-.00664	.00068	-.00082	.13177
4.500	7.000	.01303	.10339	-.01966	-.00767	.00060	-.00096	.12978
4.500	8.000	.01509	.12775	-.02694	-.00850	.00045	-.00033	.12711
4.500	9.000	.01564	.15352	-.03459	-.00953	.00038	-.00016	.12748
4.500	10.000	.01681	.18048	-.04288	-.00982	.00009	-.00025	.12928
	GRADIENT	.00060	.02356	-.00665	-.00014	.00005	-.00007	-.00497

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(RTLOS7) (16 APR 74)

AEDC VA-422(1A-57), ORB/ET W/BOTH SRB

REFERENCE DATA

SRF = 2680.0000 88. FT. XMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RM/L = 1.760
 PT-JET = .000 ALPHA = .000

PLAN NO. 53/ 0 RV/L = 1.84 GRADIENT INTERVAL = -.800/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	COL	CA
4.500	-10.000	-.12774	-.09400	.01592	.30192	-.09572	.03421	.19076
4.500	-9.000	-.12226	-.09502	.01706	.26509	-.08345	.03036	.16699
4.500	-8.000	-.11612	-.09747	.01972	.23113	-.07259	.02671	.14531
4.500	-7.000	-.11036	-.09029	.02244	.19912	-.06260	.02318	.12039
4.500	-6.000	-.10471	-.08357	.02495	.16736	-.05296	.01963	.10443
4.500	-5.000	-.10149	-.08111	.02532	.13463	-.04314	.01610	.10114
4.500	-4.000	-.09822	-.06416	.02417	.10172	-.03203	.01199	.16337
4.500	-3.000	-.09408	-.06345	.02451	.07116	-.02262	.00866	.15684
4.500	-2.000	-.09059	-.06326	.02424	.04100	-.01345	.00533	.15203
4.500	-1.000	-.08819	-.06340	.02274	.01176	-.00312	.00206	.14790
4.500	.000	-.08634	-.06270	.02275	-.01689	.00313	-.00115	.14933
4.500	1.000	-.08391	-.06483	.02317	-.04634	.01178	-.00436	.15362
4.500	2.000	-.08226	-.06654	.02727	-.07698	.02102	-.00801	.15935
4.500	3.000	-.08132	-.06709	.02862	-.10946	.03061	-.01165	.16379
4.500	4.000	-.08010	-.06896	.03088	-.13945	.03953	-.01490	.17271
4.500	5.000	-.08148	-.06877	.02593	-.16861	.04611	-.01302	.17549
4.500	6.000	-.08326	-.06868	.02863	-.20111	.05717	-.02127	.17721
4.500	7.000	-.08421	-.06651	.02664	-.23449	.06778	-.02472	.17903
4.500	8.000	-.08507	-.06472	.02506	-.26828	.07855	-.02828	.18153
4.500	9.000	-.08584	-.06390	.02411	-.30395	.08969	-.03211	.18460
4.500	10.000	-.08751	-.06292	.02265	-.33962	.10107	-.03302	.18728
	GRADIENT	.00211	-.00042	.00064	-.03019	.00698	-.00336	.00100

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(RTLOS8) (16 APR 74)

AEDC VA-422(1A-57), CRB/ET W/BOTH 508

REFERENCE DATA

9PEF = 2690.0000 96.FT. XMRP = 1032.0000 IN. XT
 1PEF = 1290.3000 IN. YMRP = .0000 IN. YT
 9PEF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRB-FOS = 3.500 RV/L = 1.760
 PT-JET = 750.000 BETA = .000

RUN NO. 51/ 0 RV/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

ALPHA	BETA	ON	CLM	CT	CTN	CEL	CA
4.500	-10.000	-0.0417	.0939	-.00124	-.00076	.00003	.16194
4.500	-9.000	-.00313	.03314	-.00064	-.00109	.00015	.16026
4.500	-8.000	-.00214	.02799	-.00111	-.00105	.00017	.17835
4.500	-7.000	-.00137	.01936	-.00234	-.00045	.00020	.17540
4.500	-6.000	-.00079	.00888	-.00473	.00078	-.00015	.17235
4.500	-5.000	-.00040	-.00708	-.00799	.00250	-.00110	.16997
4.500	-4.000	-.00103	-.03287	-.01211	.00503	-.00253	.16317
4.500	-3.000	-.00164	-.06326	-.01443	.00669	-.00307	.16039
4.500	-2.000	-.00189	.08611	-.01744	.00850	-.00362	.15619
4.500	-1.000	-.00231	.13993	-.01936	.00998	-.00363	.15322
4.500	.000	-.00287	.18783	-.02138	.01135	-.00380	.15234
4.500	1.000	-.00130	.23344	-.02204	.01131	-.00363	.15249
4.500	2.000	.00147	.27301	-.02217	.01053	-.00296	.15235
4.500	3.000	.00182	.29711	-.02230	.01076	-.00237	.15278
4.500	4.000	.00373	.28630	-.02203	.01016	-.00150	.15097
4.500	5.000	.00488	.27674	-.02612	.01203	-.00226	.14426
4.500	6.000	.00572	.29173	-.02648	.01217	-.00226	.14034
4.500	7.000	.00778	.33241	-.02814	.01243	-.00239	.13648
4.500	8.000	.00579	.36047	-.02938	.01416	-.00331	.13377
4.500	9.000	.00477	.38050	-.02818	.01430	-.00293	.13327
4.500	10.000	-.00903	.40468	-.02819	.02037	-.00546	.12757
4.500	GRADIENT	.00058	.03816	-.01864	.00076	.00002	-.00193

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(RTLOS) (16 APR 74)

AEDC VA-422(1A-57), CRB/ET W/BOTH 888

REFERENCE DATA

SEF = 2000.0000 90.FT.
LREF = 1290.3000 IN.
SEF = 1290.3000 IN.
SCALE = .0100

L-808 = 3.000 R-808 = 3.000
SRPCH = 3.300 RV/L = 1.760
PT-JET = 730.000 ALPHA = .0200

PARAMETRIC DATA

RUN NO. 50/ 0 RV/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CV	CTN	CEL	CA
4.500	-10.000	-.22161	.16176	-.14207	.37677	-.13117	.03223	.17648
4.500	-9.000	-.21738	.15841	-.13928	.35004	-.13329	.04629	.17690
4.500	-8.000	-.21313	.15538	-.13646	.28339	-.11346	.04014	.17439
4.500	-7.000	-.20758	.15750	-.13680	.23744	-.09749	.03397	.17038
4.500	-6.000	-.20212	.15466	-.13423	.19297	-.07944	.02811	.16734
4.500	-5.000	-.19875	.15201	-.13323	.15078	-.06144	.02217	.16159
4.500	-4.000	-.19305	.14708	-.13073	.11235	-.04475	.01616	.15727
4.500	-3.000	-.19298	.14314	-.12827	.07126	-.02795	.01044	.15397
4.500	-2.000	-.18622	.13935	-.12542	.03453	-.01302	.00312	.15092
4.500	-1.000	-.18277	.13694	-.12493	-.00144	.00219	-.00037	.14793
4.500	.000	-.18085	.14066	-.12346	-.03671	.01697	-.00394	.14980
4.500	1.000	-.17813	.13988	-.12355	-.07498	.03382	-.01145	.15295
4.500	2.000	-.17746	.14278	-.12455	-.11368	.04992	-.01663	.15697
4.500	3.000	-.17874	.14689	-.12707	-.15223	.06303	-.02190	.16115
4.500	4.000	-.17976	.14834	-.12769	-.19028	.07998	-.02714	.16622
4.500	5.000	-.18164	.15050	-.12964	-.22963	.09393	-.03273	.17063
4.500	6.000	-.18283	.15359	-.13227	-.26768	.11133	-.03832	.17159
4.500	7.000	-.18354	.15869	-.13586	-.30776	.12615	-.04326	.17179
4.500	8.000	-.18473	.16197	-.13824	-.34968	.14229	-.04841	.17429
4.500	9.000	-.18678	.16770	-.14224	-.39288	.15873	-.05359	.17708
4.500	10.000	-.19284	.17278	-.14659	-.44016	.17695	-.05939	.18362
	GRADIENT	.00187	.00015	.00033	-.03776	.01563	-.00343	.00107

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AEDC VA-422(1A-57), CRB/ET W/BOOTH 878

RTLDOWN (16 APR 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. YMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOB = 3.300 RNV = 1.760
 PT-JET = 1500.000 BETA = .000

RUN NO. 47/ 0 RVL = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

WAOI	ALPHA	BETA	ON	CLM	CY	CYN	CSL	CA
4.500	-10.000	-.00187	.117	-.14073	-.00797	.00212	.00030	.16302
4.500	-9.000	-.00149	.14742	-.00499	-.00438	.00132	.00006	.16944
4.500	-8.000	-.00147	.18076	-.16711	-.00360	.00129	-.00003	.16398
4.500	-7.000	-.00270	.20964	-.17749	-.00704	.00274	-.00026	.15843
4.500	-6.000	-.00342	.23195	-.19367	-.00798	.00345	-.00023	.14717
4.500	-5.000	-.00359	.24577	-.19525	-.00417	.00221	.00026	.13903
4.500	-4.000	-.00278	.25968	-.19721	.00143	-.00339	.00101	.13187
4.500	-3.000	-.00209	.27586	-.19069	.00762	-.00363	.00194	.12647
4.500	-2.000	-.00027	.29327	-.19501	.01211	-.00631	.00262	.12387
4.500	-1.000	-.00116	.31113	-.20046	.01218	-.00373	.00206	.12239
4.500	.000	.00288	.33417	-.20922	.00846	-.00338	.00184	.12298
4.500	1.000	.01030	.37825	-.22867	-.00314	-.00238	.00089	.11999
4.500	2.000	.00912	.41967	-.24782	.00353	-.00313	.00037	.12253
4.500	3.000	.00117	.45331	-.26692	.01493	-.00718	.00032	.12798
4.500	4.000	-.00235	.48423	-.28390	.01893	-.00744	.00031	.13128
4.500	5.000	-.00731	.51083	-.29636	.02111	-.00624	-.00022	.13981
4.500	6.000	-.01020	.53669	-.30930	.01797	-.00323	-.00085	.13802
4.500	7.000	-.01194	.56934	-.32128	.01609	-.00143	-.00117	.14033
4.500	8.000	-.01230	.59760	-.33222	.01390	.00003	-.00187	.14178
4.500	9.000	-.01288	.62953	-.34339	.01284	.00103	-.00214	.14258
4.500	10.000	-.01166	.66620	-.35217	.01224	.00107	-.00340	.14261
4.500	GRADIENT	.00021	.02796	-.01187	.00169	-.00069	-.00013	-.00015

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(RTLOD) (18 APR 74)

AEDC VA-422(1A-57), ORB/ET W/BOTH SPS

REFERENCE DATA

SRP = 2480.0000 80. FT. XRP = 1032.0000 IN. XT
 LRP = 1290.3000 IN. YRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RW/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 46/ 0 RW/L = 1.85 GRADIENT INTERVAL = -.5.00/ 3.00

MAC	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.17219	.29397	-.18396	.34568	-.15403	.04501	.18737
4.500	-9.000	-.16628	.30151	-.18881	.28916	-.12757	.03772	.19819
4.500	-8.000	-.16039	.30863	-.19153	.24028	-.10447	.03145	.14908
4.500	-7.000	-.15523	.31490	-.19767	.19793	-.08568	.02525	.14107
4.500	-6.000	-.15733	.31679	-.20020	.15638	-.06681	.01943	.13411
4.500	-5.000	-.15208	.31684	-.20024	.12198	-.05116	.01393	.12664
4.500	-4.000	-.15036	.32253	-.20459	.09469	-.04008	.01016	.12147
4.500	-3.000	-.14793	.32573	-.20633	.06876	-.03020	.00702	.11733
4.500	-2.000	-.14457	.32322	-.20333	.04669	-.02177	.00490	.11393
4.500	-1.000	-.14258	.31724	-.20267	.02247	-.01136	.00315	.11321
4.500	.000	-.14413	.31340	-.20160	-.00457	.00135	.00020	.11600
4.500	1.000	-.14582	.31120	-.20126	-.03548	.01499	-.00336	.12390
4.500	2.000	-.14729	.31111	-.20184	-.06877	.02915	-.00723	.12523
4.500	3.000	-.14829	.30747	-.20149	-.10445	.04489	-.01101	.12946
4.500	4.000	-.14694	.30396	-.19733	-.14582	.06489	-.01504	.13673
4.500	5.000	-.14796	.30003	-.19474	-.20334	.09392	-.02294	.14606
4.500	6.000	-.14580	.29233	-.18914	-.26171	.12767	-.03158	.15345
4.500	7.000	-.14218	.28334	-.18263	-.31867	.15597	-.04002	.15954
4.500	8.000	-.14000	.27176	-.17558	-.37016	.17548	-.04756	.16394
4.500	9.000	-.13621	.26327	-.16923	-.41119	.18291	-.05192	.16801
4.500	10.000	-.13622	.26132	-.16940	-.45347	.19161	-.05426	.16733
	GRADIENT	.00025	-.00216	.00073	-.03068	.01372	-.00339	.00203

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AEDC VA-422(1A-57), ORB/ET W/BOOM 880

0810620 (16 APR 74)

REFERENCE DATA

SRP = 2690.0000 SQ.FT. XMRP = 10*2.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.023 R-SRB = 3.000
 SRBPOS = 3.300 RW/L = 2.000
 PT-JET = 1900.000 BETA = .000

RUN NO. 44/ 0 RW/L = 2.22 GRADIENT INTERVAL = -3.00/ 3.00

WAOH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.510	-10.000	.00111	-.00140	-.08011	-.00177	.00003	.00101	.17470
4.510	-9.000	.00163	.04533	-.10296	.00091	-.00143	.00169	.17731
4.510	-8.000	.00212	.09214	-.12568	.00077	-.00153	.00160	.17992
4.510	-7.000	.00196	.13997	-.14900	.00238	-.00233	.00108	.18104
4.510	-6.000	.00132	.18636	-.17145	.00268	-.00227	.00010	.17941
4.510	-5.000	.00046	.22930	-.19096	.00412	-.00256	-.00068	.17738
4.510	-4.000	.00017	.25925	-.20114	.00747	-.00406	-.00199	.17310
4.510	-3.000	.00104	.27541	-.20238	.01153	-.00629	-.00185	.15832
4.510	-2.000	.00136	.28037	-.19821	.01259	-.00673	-.00104	.14874
4.510	-1.000	.00396	.29118	-.20163	.01436	-.00856	.00015	.14270
4.510	.000	.00379	.30483	-.20163	.01097	-.00683	.00047	.14047
4.510	1.000	.00219	.32098	-.20363	.0447	-.00312	-.00197	.13978
4.510	2.000	.00110	.34171	-.21218	-.00445	.00159	-.00280	.14267
4.510	3.000	.00280	.36854	-.22205	-.00667	.00209	-.00357	.14890
4.510	4.000	-.00045	.40345	-.23780	-.00115	.00034	-.00391	.15101
4.510	5.000	-.00936	.43863	-.25363	.00930	-.00156	-.00311	.15270
4.510	6.000	-.02059	.47834	-.27758	.00903	.00231	-.00225	.15581
4.510	7.000	-.02225	.51092	-.29521	.00419	.00344	-.00273	.15367
4.510	8.000	-.02541	.54526	-.31143	.00134	.00793	-.00312	.15390
4.510	9.000	-.02899	.57953	-.32653	-.00130	.01046	-.00330	.15420
4.510	10.000	-.02956	.61593	-.34079	-.00428	.01217	-.00385	.15417
	GRADIENT	-.00044	.01876	-.00503	-.00096	.00064	-.00027	-.00234

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ORTL003 (16 APR 76)

AEDC VA-422(1A-577), CRD/ET W/BOTH S88

REFERENCE DATA

REF = 2000.0000 90. FT. YMRP = 1092.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 REF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SP3 = 3.000 R-SP3 = 3.000
 SP8P08 = 3.300 RV/L = 2.080
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 45/ 0 RV/L = 2.23 GRADIENT INTERVAL = -3.00/ 5.00

MAOF	BETA	ALPHA	ON	CLM	CY	CIN	CEL	CA
4.510	-10.000	-.25790	.29030	-.20033	.37099	-.18348	.08234	.18864
4.510	-9.000	-.25332	.29243	-.20022	.32095	-.14599	.04822	.18930
4.510	-8.000	-.24927	.29264	-.19936	.27103	-.12825	.04428	.18922
4.510	-7.000	-.24033	.28944	-.19625	.22333	-.10430	.03888	.18296
4.510	-6.000	-.23059	.28458	-.19283	.17637	-.08131	.03209	.17476
4.510	-5.000	-.22150	.28134	-.19004	.13370	-.06049	.02323	.16334
4.510	-4.000	-.21288	.28323	-.19033	.09929	-.04469	.01916	.15519
4.510	-3.000	-.20745	.28762	-.19378	.07210	-.03329	.01359	.14399
4.510	-2.000	-.20456	.29080	-.19683	.04890	-.02402	.00922	.13643
4.510	-1.000	-.20377	.29267	-.19937	.02395	-.01350	.00223	.13413
4.510	.000	-.20666	.28918	-.19615	-.00398	-.00036	-.00028	.13663
4.510	1.000	-.20773	.28562	-.19649	-.03642	.01417	-.00958	.14160
4.510	2.000	-.21729	.28934	-.19986	-.07711	.03459	-.01666	.15614
4.510	3.000	-.22429	.29253	-.20296	-.12090	.05626	-.02636	.16902
4.510	4.000	-.22173	.29202	-.20196	-.16900	.07666	-.03141	.16753
4.510	5.000	-.21440	.28272	-.19436	-.21292	.09833	-.03437	.17056
4.510	6.000	-.21193	.27173	-.19722	-.26696	.12426	-.03836	.17688
4.510	7.000	-.20720	.26193	-.19057	-.32236	.14963	-.04226	.17927
4.510	8.000	-.20715	.25932	-.17993	-.37531	.16924	-.04773	.18283
4.510	9.000	-.20970	.26120	-.18126	-.42267	.18668	-.05268	.18983
4.510	10.000	-.21276	.26796	-.18602	-.47417	.20533	-.05734	.18868
	GRADIENT	-.00071	.00043	-.00089	-.03347	.01539	-.00623	.00168

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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RTLD60 (18 APR 74)

AEDC VA-422(1A-37), CRB/ET W/BOTH SRB

REFERENCE DATA

SRP = 2690.0000 90. FT. YARP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 SRP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 2.000
 SRP08 = 1.200 RVL = 1.780
 PT-JET = .000 BETA = .000

RUN NO. 20/ 0 RVL = 1.87 GRADIENT INTERVAL = -.000/ 5.00

ALPHA	BETA	ON	CM	CT	CYN	COL	CA
-10.000	-.02599	-.29460	.08647	.03714	-.01774	.00315	.24180
-9.000	-.02306	-.27553	.08193	.03089	-.01519	.00492	.23683
-8.000	-.02368	-.25062	.07347	.04392	-.01250	.00473	.22832
-7.000	-.02277	-.22803	.06934	.03854	-.00997	.00446	.21764
-6.000	-.02153	-.19977	.05282	.03236	-.00739	.00428	.21194
-5.000	-.02061	-.17458	.05611	.02538	-.00430	.00393	.20520
-4.000	-.01969	-.14898	.04888	.01988	-.00193	.00334	.19896
-3.000	-.01956	-.12379	.04234	.01498	.00035	.00237	.19327
-2.000	-.01943	-.09939	.03660	.01037	.00269	.00232	.18938
-1.000	-.01975	-.07514	.03102	.00699	.00466	.00212	.18722
.000	-.02002	-.05170	.02538	.00364	.00680	.00163	.18380
1.000	-.02030	-.02722	.01953	.00119	.00798	.00072	.17935
2.000	-.02038	-.00344	.00930	-.00037	.00916	-.00062	.17488
3.000	-.02011	.02723	.00049	-.00232	.00982	-.00200	.17281
4.000	-.02037	.05369	-.00723	-.00371	.01061	-.00324	.17183
5.000	-.02106	.07875	-.01412	-.00482	.01154	-.00433	.16940
6.000	-.02220	.10220	-.02053	-.00529	.01236	-.00524	.16511
7.000	-.02362	.12720	-.02737	-.00473	.01281	-.00570	.16160
8.000	-.02290	.15149	-.03358	-.00301	.01180	-.00568	.15897
9.000	-.02333	.17369	-.03974	.00069	.01031	-.00542	.15621
10.000	-.02349	.20000	-.04631	.00199	.00988	-.00533	.15329
GRADIENT	-.00008	.02324	-.00698	-.00297	.00157	-.00082	-.00350

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AEDC VA-422(1A-57), CRD/ET W/BOTH 888

071003 (16 APR 74)

REFERENCE DATA

REF = 2880.0000 80. FT. XREF = 1092.0000 IN. XT
 LREF = 1290.3000 IN. YREF = .0000 IN. YT
 SREF = 1290.3000 IN. ZREF = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = 1.000 R-523 = 2.000
 SREF-08 = 1.200 RAVL = 1.780
 PT-ET = .500 ALPHA = .000

RUN NO. 21/ 0 RAVL = 1.87 GRADIENT INTERVAL = -.5.00/ 5.00

MAON	BETA	ALPHA	ON	UM	CT	CTN	CEL	CA
4.500	-10.000	-.14133	-.03325	.01300	.30211	-.08316	.03390	.20188
4.500	-9.000	-.13332	-.03658	.01748	.26810	-.07217	.02998	.19914
4.500	-8.000	-.12264	-.03792	.01943	.23348	-.06189	.02887	.19600
4.500	-7.000	-.11252	-.04022	.02190	.20330	-.05216	.02313	.19368
4.500	-6.000	-.10259	-.04268	.02468	.17149	-.04292	.02046	.19203
4.500	-5.000	-.11163	-.04614	.02721	.13949	-.03363	.01726	.18999
4.500	-4.000	-.10890	-.04882	.02848	.10948	-.02499	.01423	.18846
4.500	-3.000	-.10311	-.07209	.03226	.08004	-.01622	.01083	.18543
4.500	-2.000	-.10100	-.07332	.03139	.05153	-.00817	.00759	.18448
4.500	-1.000	-.09902	-.07313	.03093	.02224	.00018	.00422	.18193
4.500	.000	-.09537	-.07146	.02998	-.00693	.00869	.00079	.18062
4.500	1.000	-.09195	-.07163	.03153	-.03329	.01714	-.00268	.18303
4.500	2.000	-.08936	-.07141	.03205	-.06399	.02563	-.00599	.18739
4.500	3.000	-.08757	-.07053	.03178	-.09352	.03400	-.00968	.18944
4.500	4.000	-.08592	-.06964	.03098	-.12287	.04167	-.01320	.19169
4.500	5.000	-.08403	-.06887	.02867	-.15273	.04994	-.01670	.19297
4.500	6.000	-.08246	-.06802	.02604	-.18166	.05744	-.01994	.19362
4.500	7.000	-.08099	-.06680	.02398	-.21473	.06744	-.02371	.19353
4.500	8.000	-.08735	-.06585	.02207	-.24933	.07904	-.02780	.19792
4.500	9.000	-.08787	-.06607	.01988	-.28358	.09037	-.03213	.20007
4.500	10.000	-.08872	-.06591	.01825	-.32313	.10324	-.03684	.20203
	GRADIENT	.00273	.00011	.00022	-.02309	.00836	-.00341	.00042

AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

DTL060 (16 APR 74)

REFERENCE DATA

SRP = 2480.0000 SQ.FT. XPRP = 1532.0000 IN. XT
 LRP = 1290.5000 IN. YPRP = .0000 IN. YT
 BRP = 1290.5000 IN. ZPRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 2.000
 SRBPOS = 1.200 RW/L = 1.750
 PT-JET = 750.000 BETA = .300

RUN NO. 16/ 0 RW/L = 1.06 GRADIENT INTERVAL = -.3.00/ 5.00

WACH	ALPHA	BETA	GN	CLM	CV	CYN	CEL	CA
4.500	-10.000	.09138	-.1676.	-.01570	-.13384	.02833	-.00381	.13234
4.500	-9.000	.09064	-.14593	-.02346	-.13410	.02868	-.00460	.12873
4.500	-8.000	.08931	-.12274	-.02503	-.13322	.02891	-.00503	.12516
4.500	-7.000	.08926	-.10077	-.02950	-.13213	.02831	-.00537	.12173
4.500	-6.000	.09524	-.08296	-.03422	-.13516	.02720	-.00508	.11784
4.500	-5.000	.09536	-.06368	-.03863	-.13463	.02679	-.00530	.11460
4.500	-4.000	.09508	-.04400	-.04248	-.13342	.02619	-.00533	.11168
4.500	-3.000	.09504	-.02498	-.04611	-.13292	.02541	-.00519	.10906
4.500	-2.000	.09641	-.00762	-.04920	-.13366	.02547	-.00527	.10534
4.500	-1.000	.09664	.01397	-.05224	-.13618	.02563	-.00576	.10263
4.500	.000	.09674	.03393	-.05528	-.13579	.02533	-.00530	.09996
4.500	1.000	.09328	.05122	-.05836	-.13379	.02533	-.00720	.09785
4.500	2.000	.08773	.06879	-.06223	-.12963	.02588	-.00783	.09293
4.500	3.000	.08558	.08686	-.06639	-.12370	.02413	-.00830	.09443
4.500	4.000	.08470	.10601	-.07040	-.11926	.02214	-.00862	.09338
4.500	5.000	.08389	.12563	-.07394	-.11463	.02003	-.00860	.09231
4.500	6.000	.08327	.14454	-.07723	-.10933	.01739	-.00900	.09139
4.500	7.000	.08279	.16487	-.08075	-.10340	.01433	-.00839	.09033
4.500	8.000	.08244	.18464	-.08410	-.09703	.01136	-.00767	.08936
4.500	9.000	.08443	.20732	-.08878	-.09222	.00793	-.00727	.08744
4.500	10.000	.08729	.23392	-.09309	-.08834	.00453	-.00733	.08581
4.500	GRADIENT	-.00139	.01884	-.00347	.00179	-.00048	-.00342	-.00232



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AEDC VA-422(1A-37) . CRB/ET W/BOTH SRS

ATT-0617 (18 APR 74)

REFERENCE DATA

SRF = 2080.0000 SQ.FT. XMRP = 1032.0000 IN. XT
 LPT = 1250.3000 IN. YMRP = .0000 IN. YT
 CRT = 1250.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

L-SR = 1.000 R-SR = 2.000
 SRPOS = 1.200 RWL = 1.700
 PT-JET = 750.000 ALPHA = .000

PARAMETRIC DATA

RUN NO. 17/ 0 RWL = 1.86 GRADIENT INTERVAL = -5.00V 3.00

MACH	BETA	ALPHA	ON	CLM	CT	CON	CEL	CA
4.500	-10.000	-.16149	.01209	-.04774	.08271	-.03947	.00780	.12517
4.500	-9.000	-.15318	.01559	-.04755	.04804	-.02820	.00484	.12110
4.500	-8.000	-.15133	.01593	-.04692	.01531	-.01652	.00374	.11417
4.500	-7.000	-.14984	.02119	-.03776	-.01092	-.00946	.00459	.10935
4.500	-6.000	-.14160	.02894	-.03411	-.03109	-.00312	.00359	.10545
4.500	-5.000	-.13819	.03323	-.03607	-.04694	.00009	.00275	.10390
4.500	-4.000	-.13629	.03270	-.03630	-.06752	.01006	.00248	.10299
4.500	-3.000	-.13523	.02787	-.03461	-.08920	.01600	-.00224	.10202
4.500	-2.000	-.13559	.02410	-.03391	-.10759	.02169	-.00391	.10013
4.500	-1.000	-.13839	.01936	-.03401	-.12663	.02492	-.00336	.10713
4.500	.000	-.14999	.00628	-.03360	-.14148	.02777	-.00689	.10600
4.500	1.000	-.15290	-.01169	-.03130	-.16357	.03157	-.00511	.10534
4.500	2.000	-.15311	-.00492	-.04953	-.19755	.03484	-.01129	.10498
4.500	3.000	-.16286	-.01064	-.03105	-.21941	.03689	-.01329	.10397
4.500	4.000	-.17023	-.01779	-.03157	-.24346	.03849	-.01476	.11340
4.500	5.000	-.17676	-.02323	-.03180	-.26729	.04084	-.01620	.11559
4.500	6.000	-.18280	-.03108	-.03287	-.29056	.04414	-.01791	.11597
4.500	7.000	-.18899	-.03517	-.04979	-.31848	.04840	-.02008	.12259
4.500	8.000	-.19421	-.04783	-.04800	-.34752	.05345	-.02245	.12593
4.500	9.000	-.20024	-.05802	-.04683	-.37519	.05771	-.02489	.12945
4.500	10.000	-.20956	-.06930	-.04680	-.39972	.06133	-.02703	.13313
	GRADIENT	-.00419	-.00615	.00057	-.02190	.00334	-.00169	.00144

AEDC VA-422(1A-57), ORG/ET W/CLM 583

GTL000 (13 APR 74)

REFERENCE DATA

REF = 2890.0000 SQ.FT. 166P = 1032.0000 IN. XT
 LREF = 1290.3000 IN. Y16P = .0000 IN. YT
 RREF = 1290.3000 IN. Z16P = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-500 = 1.000 R-500 = 2.000
 SRS-000 = 1.200 RVL = 1.700
 PT-JET = 1900.000 SETP = .000

RUN NO. 19/ 0 RVL = 1.67 GRADIENT INTERVAL = -.5.00/ 5.00

WICH	ALPHA	BETA	ON	CLM	CT	CYN	CEL	CA
4.900	-10.000	.23966	-.13209	-.09312	-.22430	.00860	-.00787	.11317
4.900	-9.000	.23573	-.11153	-.09932	-.22007	.00747	-.00772	.11202
4.900	-8.000	.23901	-.08753	-.10453	-.21902	.00533	-.00744	.11018
4.900	-7.000	.23993	-.06833	-.10907	-.21793	.00543	-.00732	.10821
4.900	-6.000	.23487	-.04646	-.11232	-.21633	.00573	-.00731	.10610
4.900	-5.000	.22945	-.01936	-.11508	-.21403	.00575	-.00742	.10402
4.900	-4.000	.22351	.00426	-.11787	-.21152	.00719	-.00766	.10223
4.900	-3.000	.22331	.02639	-.12173	-.20779	.00791	-.00799	.09998
4.900	-2.000	.22764	.04634	-.12490	-.20360	.00721	-.00822	.09757
4.900	-1.000	.22329	.06489	-.12761	-.20008	.00846	-.00830	.09507
4.900	.000	.22798	.08183	-.12972	-.21144	.00850	-.00856	.09313
4.900	1.000	.23122	.09914	-.13126	-.21381	.00971	-.00890	.09430
4.900	2.000	.23506	.11537	-.13373	-.22042	.01053	-.00511	.09300
4.900	3.000	.23246	.13154	-.13673	-.21990	.01123	-.00922	.09062
4.900	4.000	.22521	.14910	-.14151	-.21824	.01382	-.00933	.08900
4.900	5.000	.21377	.17124	-.14883	-.21963	.01924	-.01053	.08808
4.900	6.000	.20020	.19214	-.15444	-.22229	.02592	-.01223	.08611
4.900	7.000	.18796	.21056	-.15891	-.21943	.02961	-.01196	.08332
4.900	8.000	.17603	.22416	-.15325	-.21757	.03253	-.01106	.08083
4.900	9.000	.17131	.23477	-.15383	-.21241	.03311	-.00929	.07831
4.900	10.000	.16545	.24790	-.14820	-.20640	.03262	-.00934	.07679
4.900	GRADIENT	-.00012	.01636	-.00300	-.00146	.00094	-.00125	-.00158

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AEDC VA-422(1A-57), CR/JET W/BOOM 828

(RTTLO9) (18 27 74)

REFERENCE DATA

SRV = 2000.0000 50. FT. XPRP = 1052.0000 IN. XT
 LREF = 1250.3000 IN. YMRP = .0000 IN. YT
 BREF = 1250.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 1.000 R-SRS = 2.000
 SRSPOS = 1.200 RV/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 18/ 0 RV/L = 1.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CTN	CEL	CA
4.500	-10.000	-.21036	.03196	-.09734	.09909	-.06793	.02483	.09922
4.500	-9.000	-.21237	.03887	-.10276	.07490	-.06233	.02280	.09793
4.500	-8.000	-.21637	.06820	-.11063	.04931	-.05690	.02063	.09612
4.500	-7.000	-.22762	.07831	-.12131	.01812	-.04636	.01707	.09446
4.500	-6.000	-.23839	.08145	-.13018	-.01707	-.03643	.01202	.09278
4.500	-5.000	-.24643	.08286	-.13606	-.03296	-.02484	.00693	.09034
4.500	-4.000	-.24774	.08221	-.13747	-.08896	-.01571	.00238	.08923
4.500	-3.000	-.24875	.08114	-.13839	-.12404	-.00733	-.00127	.08866
4.500	-2.000	-.24876	.07619	-.13761	-.13560	.00023	-.00499	.08933
4.500	1.000	-.245000	.07136	-.13339	-.16700	.03621	-.00748	.08870
4.500	2.000	-.23967	.04734	-.11944	-.24360	.01699	-.01036	.09193
4.500	3.000	-.23948	.04023	-.12039	-.23628	.02023	-.01039	.09392
4.500	4.000	-.26064	.02176	-.11967	-.27333	.02328	-.01171	.09361
4.500	5.000	-.26401	.01222	-.11553	-.26366	.02878	-.01233	.09479
4.500	6.000	-.27000	-.02228	-.11162	-.30330	.03006	-.01233	.09643
4.500	7.000	-.27333	-.01359	-.10826	-.32232	.03068	-.01220	.09691
4.500	8.000	-.26940	-.01693	-.10923	-.33977	.03063	-.01166	.09555
4.500	9.000	-.26771	-.01363	-.10436	-.35426	.03110	-.01101	.09781
4.500	10.000	-.25981	-.01514	-.10369	-.37343	.03169	-.01157	.09827
4.500	10.000	-.26438	-.01960	-.10573	-.39664	.03416	-.01412	.09827
4.500	GRADIENT	.00014	-.00874	.00263	-.02339	.03531	-.00167	.00073

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(RTLOFD) (16 APR 74)

REFERENCE DATA

SRP = 2690.0000 SQ.FT. YARP = 1052.0000 IN. XT
 LRP = 1290.3000 IN. YARP = .0000 IN. YT
 BRP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 1.000
 SRBPOS = 2.100 RVL = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 36/ 0 RVL = 1.86 GR/DIENT INTERVAL = -.5.00/ 5.00

WACH	ALPHA	BETA	ON	CM	CT	CYN	CEL	CA
4.500	-10.000	.03068	-.28455	.08456	-.06468	.01823	-.00433	.23937
4.500	-9.000	.03032	-.27241	.08067	-.03869	.01535	-.00419	.23432
4.500	-8.000	.02983	-.24929	.07618	-.05247	.01282	-.00406	.22823
4.500	-7.000	.02930	-.22439	.07053	-.04591	.00993	-.00396	.22168
4.500	-6.000	.02892	-.19901	.06430	-.04053	.00754	-.00383	.21580
4.500	-5.000	.02801	-.17132	.05643	-.03603	.00580	-.00356	.20826
4.500	-4.000	.02768	-.14523	.04911	-.03093	.00352	-.00322	.19839
4.500	-3.000	.02782	-.12031	.04257	-.02596	.00110	-.00300	.19323
4.500	-2.000	.02648	-.09577	.03639	-.02112	-.00147	-.00271	.18912
4.500	-1.000	.02577	-.07035	.03003	-.01755	-.00345	-.00232	.18572
4.500	.000	.02520	-.04710	.02446	-.01405	-.00334	-.00196	.18191
4.500	1.000	.02508	-.02267	.01794	-.01109	-.00720	-.00101	.17943
4.500	2.000	.03198	.00366	.00983	-.00891	-.00898	.00027	.17643
4.500	3.000	.03447	.02972	.00126	-.00711	-.01016	.00158	.17391
4.500	4.000	.03543	.05527	-.00669	-.00657	-.01121	.00270	.17076
4.500	5.000	.03785	.07915	-.01345	-.00644	-.01226	.00365	.16767
4.500	6.000	.04016	.10163	-.02019	-.00685	-.01301	.00428	.16392
4.500	7.000	.04222	.12681	-.02717	-.00754	-.01353	.00483	.16010
4.500	8.000	.04381	.15191	-.03424	-.00696	-.01351	.00518	.15705
4.500	9.000	.04538	.17855	-.04223	-.01072	-.01332	.00555	.15498
4.500	10.000	.04696	.20382	-.05047	-.01328	-.01276	.00601	.15276
4.500		.00596	.02501	-.00683	.00303	-.00183	.00073	-.00359

GRADIENT

DATE 28 OCT 74

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(RTLD071) (18 APR 74)

AEDC VA-422(1A-37) CRB/ET W/BOTH SRS

REFERENCE DATA

SRP = 2890.0000 SQ. FT. XMRP = 1032.0000 IN. XT
 YMRP = 1290.5000 IN. YMRP = .0000 IN. YT
 ZMRP = 1290.5000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 1.000
 SRSPOS = 2.100 RV/L = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO. 37/ 0 RV/L = 1.00 GRADIENT INTERVAL = -.5.00/ 1.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.14062	-.03021	.01321	.00987	-.00747	.00411	.20410
4.500	-9.000	-.13395	-.03267	.01603	.00925	-.00903	.02962	.20135
4.500	-8.000	-.12782	-.03586	.01874	.01479	-.07476	.02353	.19771
4.500	-7.000	-.12165	-.03966	.02166	.02244	-.06482	.02139	.19443
4.500	-6.000	-.11574	-.04255	.02432	.03025	-.05503	.01742	.19164
4.500	-5.000	-.11136	-.04450	.02699	.03905	-.04526	.01577	.18873
4.500	-4.000	-.10630	-.04685	.02790	.04898	-.03620	.01026	.18612
4.500	-3.000	-.10213	-.04746	.02940	.06025	-.02771	.00659	.18273
4.500	-2.000	-.09871	-.04711	.02794	.05170	-.01922	.00368	.17679
4.500	-1.000	-.09498	-.04691	.02909	.00039	-.00939	-.00002	.17972
4.500	.000	-.09154	-.04693	.03061	-.02689	-.00036	-.00354	.18057
4.500	1.000	-.08843	-.04689	.03063	-.05702	.00622	-.00695	.18166
4.500	2.000	-.08786	-.04767	.03092	-.08297	.01414	-.01025	.18413
4.500	3.000	-.08667	-.04675	.03069	-.11316	.02093	-.01313	.18501
4.500	4.000	-.08691	-.04689	.03003	-.13960	.02706	-.01572	.18480
4.500	5.000	-.08697	-.04346	.02874	-.16756	.03457	-.01841	.18485
4.500	6.000	-.08719	-.04793	.02691	-.19615	.04302	-.02137	.18533
4.500	7.000	-.08838	-.04608	.02467	-.22962	.05222	-.02433	.18685
4.500	8.000	-.08854	-.04402	.02293	-.26294	.06227	-.02775	.18863
4.500	9.000	-.08891	-.04324	.02180	-.29701	.07253	-.03136	.19079
4.500	10.000	-.08972	-.04323	.02091	-.33165	.08303	-.03507	.19333
	GRADIENT	.00246	-.00040	.00033	-.02873	.00801	-.00327	-.00003

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

(RTLO72) (10 APR 74)

AEDC VA-422(1A-57), CRIB/ET W/BOIN SRB

REFERENCE DATA

SRP = 2000.0000 90.FT. YMRP = 1032.0000 IN. XT
 LRP = 1290.3000 IN. YMRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 1.000
 SRP05 = 2.100 RV/L = 1.760
 PT-JET = 1500.000 BETA = .000

RUN NO. 30/ 0 RV/L = 1.96 GRADIENT INTERVAL = -3.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	CBL	CA
4.500	-10.000	-.19559	-.11704	-.11974	.16673	-.00031	.00814	.12070
4.500	-9.000	-.19723	-.09327	-.12433	.16734	-.00010	.00607	.11969
4.500	-8.000	-.19766	-.07293	-.12767	.16731	-.00005	.00626	.11622
4.500	-7.000	-.19666	-.05073	-.13016	.16734	-.00072	.00638	.11448
4.500	-6.000	-.19333	-.02932	-.13216	.16631	-.00131	.00680	.11250
4.500	-5.000	-.18923	-.00615	-.13456	.16234	-.00143	.00691	.11108
4.500	-4.000	-.18002	.01152	-.13767	.15546	-.00197	.00700	.11036
4.500	-3.000	-.17358	.02857	-.13991	.15268	-.00329	.00684	.10791
4.500	-2.000	-.17033	.04695	-.14180	.15300	-.00477	.00691	.10531
4.500	-1.000	-.16885	.06600	-.14384	.15450	-.00506	.00661	.10263
4.500	.000	-.16872	.08363	-.14603	.15856	-.00764	.00648	.10074
4.500	1.000	-.17207	.10602	-.14841	.16846	-.01140	.00717	.09984
4.500	2.000	-.16510	.13016	-.15250	.17634	-.01810	.00887	.09897
4.500	3.000	-.15070	.15962	-.15543	.18178	-.02643	.01121	.09774
4.500	4.000	-.13499	.18756	-.15863	.18106	-.03242	.01274	.09637
4.500	5.000	-.11823	.20378	-.16151	.17754	-.03751	.01382	.09405
4.500	6.000	-.10519	.22075	-.16304	.17684	-.04233	.01421	.09258
4.500	7.000	-.09620	.23042	-.16126	.17609	-.04566	.01340	.09246
4.500	8.000	-.09982	.23750	-.15743	.17257	-.04646	.01235	.09032
4.500	9.000	-.08232	.24654	-.15572	.16542	-.04597	.01196	.08776
4.500	10.000	-.07575	.25963	-.15472	.15742	-.04468	.01156	.08500
	GRADIENT	.00555	.02149	-.00265	.00297	-.00367	.00069	-.00171



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(RTLD73) (16 APR 76)

AEDC VA-422(11A-37), CRB/ET W/BOTH SRB

REFERENCE DATA

SRP = 2000.0000 SQ.FT. YARP = 1052.0000 IN. XT
 URP = 1290.3000 IN. YARP = .0000 IN. YT
 SRP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 1.000
 SRB-OS = 2.100 RW/L = 1.700
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 38/ 0 RW/L = 1.86 GRADIENT INTERVAL = -3.00/ 9.00

WACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.33342	-.01089	-.12233	.34349	-.04316	.01628	.10837
4.500	-9.000	-.32806	-.00400	-.12340	.32462	-.03911	.01473	.10867
4.500	-8.000	-.32140	.00231	-.12460	.30263	-.03551	.01323	.10829
4.500	-7.000	-.31282	.01249	-.12677	.28138	-.03263	.01193	.10720
4.500	-6.000	-.30062	.02400	-.12802	.25992	-.02940	.01044	.10612
4.500	-5.000	-.28176	.03865	-.12760	.24486	-.02845	.00997	.10436
4.500	-4.000	-.26250	.05271	-.12657	.23790	-.02846	.01036	.10332
4.500	-3.000	-.24599	.05389	-.13258	.22573	-.02372	.01106	.10262
4.500	-2.000	-.23531	.06233	-.14263	.19279	-.01263	.00997	.09903
4.500	-1.000	-.27371	.06627	-.14366	.15911	-.00903	.00855	.09593
4.500	.000	-.26753	.07362	-.14981	.12763	.00116	.00419	.09410
4.500	1.000	-.25249	.08769	-.14723	.09579	.00824	.00130	.09186
4.500	2.000	-.22699	.11011	-.14773	.06121	.01632	-.00172	.08696
4.500	3.000	-.20615	.11631	-.14224	.02353	.02365	-.00392	.08732
4.500	4.000	-.18743	.11030	-.13145	-.01499	.03769	-.01216	.08602
4.500	5.000	-.17614	.09763	-.12094	-.05176	.04868	-.01734	.08517
4.500	6.000	-.16818	.08574	-.11184	-.07811	.05223	-.01976	.08607
4.500	7.500	-.16691	.07423	-.10596	-.10045	.05421	-.02034	.08843
4.500	8.000	-.16789	.06660	-.10003	-.12131	.05661	-.02161	.09113
4.500	9.000	-.16333	.06220	-.09998	-.14217	.05969	-.02323	.09453
4.500	10.000	-.16142	.06016	-.09738	-.16480	.06473	-.02323	.09744
4.500	GRADIENT	.01024	.00742	-.00030	-.03116	.00791	-.00277	-.00215

(RTL 074) (18 APR 74)

AFDC VA-422(1A-57), CRB/ET W/BOTH 3RD

REFERENCE DATA

SRF	=	2650.0000	59. FT.	YARP	=	1052.0000	IN. ZT
UREF	=	1250.3000	IN.	YARP	=	.0000	IN. YT
SRF	=	1250.3000	IN.	ZARP	=	447.0000	IN. ZT
SCALE	=					.0100	

PARAMETRIC DATA

L-SRB	=	2,000	R-SRB	=	3,000
SREPOS	=	2,300	RAVL	=	1,760
PT-JET	=	,000	BETA	=	,000

GRADIENT INTERVAL = -5.00V 5.00

WACH	ALPHA	BETA	ON	QUM	CY	CYN	COL	CA
4.500	-10.000	.01659	-.25115	.09492	.00002	-.00148	.00042	.21331
4.500	-9.000	.01554	-.26846	.08190	.00119	-.00221	.00056	.20985
4.500	-8.000	.01514	-.24514	.07702	.00186	-.00288	.00052	.20485
4.500	-7.000	.01492	-.21936	.07005	.00368	-.00420	.00026	.19919
4.500	-6.000	.01426	-.19247	.06259	.00544	-.00530	.00019	.19316
4.500	-5.000	.01354	-.16571	.05530	.00565	-.00555	.00011	.19113
4.500	-4.000	.01266	-.14013	.04807	.00632	-.00612	.00004	.18991
4.500	-3.000	.01151	-.11457	.04049	.00709	-.00646	.00003	.19002
4.500	-2.000	.01017	-.09226	.03348	.00752	-.00675	.00001	.17481
4.500	-1.000	.00910	-.06624	.02718	.00758	-.00695	.00001	.17139
4.500	.000	.00779	-.04434	.02166	.00791	-.00701	-.00007	.16951
4.500	1.000	.00651	-.02011	.01623	.00818	-.00715	.00037	.16516
4.500	2.000	.00568	.00261	.00923	.00891	-.00770	.00112	.17223
4.500	3.000	.00513	.00804	.00068	.00947	-.00829	.00196	.17171
4.500	4.000	.00465	.00390	-.00811	.01009	-.00895	.00243	.16907
4.500	5.000	.00432	.07613	-.01607	.01042	-.00952	.00272	.16749
4.500	6.000	.00461	.10166	-.02359	.01015	-.01006	.00281	.16492
4.500	7.000	.00505	.12557	-.03094	.00999	-.01071	.00263	.16207
4.500	8.000	.00507	.14943	-.03798	.00930	-.01094	.00266	.15902
4.500	9.000	.00546	.17574	-.04514	.00872	-.01054	.00236	.15619
4.500	10.000	.00594	.19856	-.05227	.00929	-.01074	.00215	.15381
GRANDTENT		-.00058	.02414	-.00693	.00045	-.00033	.00026	-.00230

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(RTLOYS) (18 APR 74)

AEDC VA-422(1A-57), CRIB/ET W/BOTH SRB

REFERENCE DATA

SRP = 2490.0000 SQ.FT. XMRP = 1032.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 3.000
 SRPQS = 2.300 RV/L = 1.700
 PT-JET = .000 ALPHA = .000

RUN NO. 41/ 0 RV/L = 1.06 GRADIENT INTERVAL = -3.00/ 3.00

WAOH	BETA	ALPHA	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13930	.01099	.31542	-.10367	.03582	.19632
4.500	-9.000	-.13204	.01410	.29035	-.09212	.03159	.19375
4.500	-8.000	-.12395	.01949	.24596	-.08117	.02780	.19079
4.500	-7.000	-.11710	.02191	.21275	-.07066	.02364	.18806
4.500	-6.000	-.11024	.02314	.19081	-.06151	.01993	.18408
4.500	-5.000	-.10637	.02591	.16832	-.05128	.01609	.17958
4.500	-4.000	-.10196	.02670	.14546	-.04049	.01213	.17623
4.500	-3.000	-.09737	.02737	.08427	-.03075	.00877	.17239
4.500	-2.000	-.09311	.02947	.05398	-.02136	.00548	.17039
4.500	-1.000	-.08987	.02898	.02299	-.01211	.00196	.17048
4.500	.000	-.08723	.02634	-.00636	-.00313	-.00129	.16624
4.500	1.000	-.08420	.02877	-.03667	.00398	-.00461	.17140
4.500	2.000	-.08240	.03023	-.06646	.01483	-.00808	.17601
4.500	3.000	-.08125	.02962	-.09663	.02367	-.01137	.18275
4.500	4.000	-.08065	.02892	-.12622	.03202	-.01484	.18561
4.500	5.000	-.08126	.02700	-.15522	.04009	-.01745	.18868
4.500	6.000	-.08289	.02461	-.18523	.04842	-.02541	.18841
4.500	7.000	-.08335	.02293	-.21707	.05808	-.02334	.19011
4.500	8.000	-.08392	.02108	-.25037	.06874	-.02702	.19259
4.500	9.000	-.08362	.01964	-.28532	.07952	-.03040	.19465
4.500	10.000	-.08448	.01890	-.32233	.09139	-.03433	.19750
	GRADIENT	.00261	.00023	-.03025	.00910	-.00336	.00109

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AEDC VA-422(1A-57), CRB/ET W/BOTH BRB

(RTLD78) (16 APR 74)

REFERENCE DATA

WEP = 2990.0000 SQ.FT. YARP = 1035.0000 IN. YT
 LREP = 1290.3000 IN. YARP = .0000 IN. YT
 WREP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-808 = 2.000 R-808 = 3.000
 S18P08 = 2.300 R1V/L = 1.750
 PT-JET = 1900.000 BETA = .000

RUN NO. 43/ 0 R1V/L = 1.86 GRADIENT INTERVAL = -.5.00/ 3.00

MAOH	ALPHA	BETA	ON	CLM	CY	CRN	CEL	CA
4.500	-10.000	-.32709	-.09011	-.04606	.20827	.03948	.00346	.17822
4.500	-9.000	-.32730	-.02302	-.03230	.19700	.04085	.00419	.17310
4.500	-8.000	-.32524	.00476	-.03785	.18396	.04575	.00457	.16936
4.500	-7.000	-.32291	.03068	-.06380	.16841	.03198	.00422	.16636
4.500	-6.000	-.31517	.05594	-.06978	.15709	.03399	.00499	.15912
4.500	-5.000	-.30974	.08831	-.07591	.14570	.03703	.00515	.15322
4.500	-4.000	-.30390	.11661	-.08336	.13368	.06104	.00463	.14946
4.500	-3.000	-.29987	.14440	-.09123	.12063	.06469	.00351	.14330
4.500	-2.000	-.29543	.17432	-.10034	.10884	.06834	.00260	.13617
4.500	-1.000	-.28815	.20349	-.10932	.09804	.07167	.00102	.12980
4.500	.000	-.28023	.23421	-.12104	.08418	.07411	-.00084	.12429
4.500	1.000	-.26749	.26163	-.13086	.06641	.07748	-.00322	.12098
4.500	2.000	-.25988	.28500	-.13870	.05282	.06033	-.00344	.11898
4.500	3.000	-.25010	.30392	-.14420	.04118	.06257	-.00701	.11636
4.500	4.000	-.24357	.32372	-.15110	.03539	.06278	-.00620	.11539
4.500	5.000	-.24233	.34203	-.15796	.03132	.06429	-.01026	.11529
4.500	6.000	-.24343	.36024	-.16453	.02930	.06374	-.01241	.11548
4.500	7.000	-.24436	.37936	-.17033	.02833	.06691	-.01458	.11518
4.500	8.000	-.24618	.39969	-.17592	.02663	.06833	-.01692	.11541
4.500	9.000	-.24811	.41724	-.17931	.02334	.09118	-.01891	.11598
4.500	10.000	-.25089	.43349	-.18240	.01965	.09432	-.02081	.11696
	GRADIENT	.00753	.02594	-.00233	-.01222	.00279	-.00184	-.00406



DATE 28 OCT 74

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(RTLO77) (16 APR 74)

ADDC VA-422(1A-57), ORB/ET W/BOIM SRB

REFERENCE DATA

SRP = 2880.0000 SQ.FT. WRP = 1032.0000 IN. YT
 LRP = 1296.3000 IN. YRP = .0000 IN. YT
 BRP = 1296.3000 IN. ZRP = 447.0000 IN. ZT
 SCALE = .0000

PARAMETRIC DATA

L-SRB = 2.000 N-SRB = 3.000
 SRP/CA = 2.500 RV/L = 1.78C
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 42/ 0 RV/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

Run No.	BETA	ALPHA	ON	GM	CT	CTN	CSL	CA
4.500	-10.000	-.12793	.15101	-.09668	.28932	.04931	.00831	.12812
4.500	-9.000	-.12238	.15920	-.10174	.28343	.03183	.00779	.12435
4.500	-8.000	-.11793	.16375	-.10414	.23793	.03397	.00673	.12382
4.500	-7.000	-.11273	.17035	-.10905	.20841	.06068	.00320	.12382
4.500	-6.000	-.10974	.17710	-.10787	.18024	.06344	.00339	.12453
4.500	-5.000	-.10317	.18391	-.10988	.15330	.06563	.00188	.12638
4.500	-4.000	-.09732	.18940	-.10998	.13440	.06891	.00140	.12871
4.500	-3.000	-.08969	.19668	-.11093	.11865	.06823	.00073	.12727
4.500	-2.000	-.08032	.20442	-.11128	.10593	.06846	.00034	.12753
4.500	-1.000	-.07437	.20799	-.11223	.09221	.07229	.00063	.12353
4.500	.000	-.06930	.20102	-.10874	.07009	.07769	-.00109	.11797
4.500	1.000	-.06798	.19057	-.10424	.04303	.08507	-.00296	.11684
4.500	2.000	-.06914	.17998	-.09916	.01044	.09692	-.00610	.12087
4.500	3.000	-.07091	.17003	-.09329	-.03327	.11474	-.01106	.12727
4.500	4.000	-.06845	.16167	-.09034	-.08418	.13328	-.01643	.13264
4.500	5.000	-.06525	.15776	-.08677	-.14381	.16024	-.02348	.13584
4.500	6.000	-.06237	.15194	-.08264	-.20442	.18575	-.03133	.14024
4.500	7.000	-.05693	.13247	-.08131	-.26338	.20838	-.03863	.13972
4.500	8.000	-.05601	.13924	-.08466	-.32352	.22891	-.04568	.14162
4.500	9.000	-.05338	.16993	-.08994	-.37931	.24540	-.05207	.14567
4.500	10.000	-.05510	.18196	-.09646	-.43081	.25932	-.05742	.15009
4.500	GRADIENT	.00361	-.00354	.00248	-.02778	.00848	-.00228	.00046

REPRODUCIBILITY OF THE
 ORIGINAL DATA IS HIGH

DATE 29 OCT 74

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(RTLD78) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 SQ.FT. YARP = 1032.0000 IN. XT
LREP = 1290.3000 IN. YARP = .0000 IN. YT
SRP = 1290.3000 IN. ZARP = 447.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
SRPQB = 3.200 RV/L = 1.760
PT-JET = .000 BETA = .000

RUN NO. 97/ 0 RV/L = 1.67 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	.00068	-.29067	.06221	-.00736	.00300	.00070	.21365
4.500	-9.000	.00068	-.26883	.06206	-.00762	.00316	.00062	.21283
4.500	-8.000	.00040	-.24737	.07904	-.00840	.00369	.00066	.21076
4.500	-7.000	.00033	-.22234	.07292	-.00870	.00390	.00084	.20803
4.500	-6.000	-.00006	-.19703	.06639	-.00948	.00448	.00077	.20220
4.500	-5.000	-.00049	-.16963	.05668	-.01104	.00343	.00089	.19543
4.500	-4.000	-.00038	-.14326	.03086	-.01097	.00349	.00077	.19136
4.500	-3.000	-.00060	-.11586	.04148	-.01111	.00339	.00072	.18276
4.500	-2.000	-.00060	-.09136	.03403	-.01112	.00353	.00070	.17594
4.500	-1.000	-.00043	-.06743	.02748	-.01135	.00380	.00066	.17253
4.500	.000	-.00074	-.04609	.02300	-.01190	.00613	.00066	.17247
4.500	1.000	-.00092	-.02371	.01803	-.01336	.00694	-.00002	.17612
4.500	2.000	-.00128	.00173	.00964	-.01429	.00734	-.00093	.17396
4.500	3.000	-.00173	.02772	.00068	-.01532	.00836	-.00193	.17205
4.500	4.000	-.00199	.05331	-.00831	-.01674	.00908	-.00278	.17027
4.500	5.000	-.00180	.07841	-.01662	-.01796	.00962	-.00319	.16827
4.500	6.000	-.00069	.10237	-.02423	-.01934	.00996	-.00398	.16560
4.500	7.000	.00069	.12549	-.03101	-.02029	.00976	-.00297	.16271
4.500	8.000	.00219	.14868	-.03748	-.02067	.00937	-.00244	.15964
4.500	9.000	.00251	.17300	-.04437	-.02064	.00934	-.00197	.15716
4.500	10.000	.00266	.19692	-.05082	-.02018	.00899	-.00152	.15482
GRADIENT		-.00016	.02444	-.00722	-.00072	.00044	-.00041	-.00236

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AEDC VA-422(1A-57), CRB/ET W/BOOTH 588

(10 APR 74)

REFERENCE DATA

SEEF = 2680.0000 50. FT. XGRP = 1052.0000 IN. XT
LYEP = 1290.3000 IN. YGRP = .5000 IN. YT
BREP = 1290.3000 IN. ZGRP = 447.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

L-978 = 3.000 R-978 = 2.000
SR978 = 3.200 RV/L = 1.780
PT-JET = .000 ALPHA = .000

RUN NO. 58/ D RV/L = 1.86 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
4.500	-10.000	-.13616	-.04636	.01234	.28831	-.08783	.03308	.20843
4.500	-9.000	-.12396	-.04710	.01394	.25361	-.07632	.02344	.19661
4.500	-8.000	-.12346	-.04392	.01670	.22096	-.06611	.02612	.19310
4.500	-7.000	-.11706	-.03311	.01970	.18882	-.05431	.02277	.19172
4.500	-6.000	-.11075	-.03625	.02270	.15783	-.04701	.01970	.18677
4.500	-5.000	-.10653	-.03973	.02476	.12629	-.03731	.01626	.18342
4.500	-4.000	-.10164	-.06371	.02762	.09476	-.02723	.01259	.18394
4.500	-3.000	-.09691	-.06690	.03011	.06464	-.01806	.00942	.18113
4.500	-2.000	-.09302	-.06774	.03064	.03393	-.00946	.00301	.17942
4.500	-1.000	-.09044	-.06432	.02706	.00349	.00077	.00259	.16799
4.500	.000	-.08830	-.06387	.02707	-.02686	-.1027	-.00064	.16059
4.500	1.000	-.08505	-.06665	.02378	-.03700	.01943	-.00417	.17197
4.500	2.000	-.08303	-.06643	.03036	-.06773	.02668	-.00777	.17604
4.500	3.000	-.08189	-.06335	.03041	-.11891	.03813	-.01134	.17972
4.500	4.000	-.08124	-.06327	.03032	-.14994	.04700	-.01481	.18282
4.500	5.000	-.08237	-.06396	.02345	-.18099	.03333	-.01822	.18433
4.500	6.000	-.08472	-.06146	.02345	-.21203	.06462	-.02169	.18343
4.500	7.000	-.08606	-.03853	.02256	-.24343	.07303	-.02344	.18635
4.500	8.000	-.08750	-.03518	.01932	-.27975	.06609	-.02940	.18767
4.500	9.000	-.08876	-.03247	.01696	-.31521	.09701	-.03332	.19936
4.500	10.000	-.09174	-.04934	.01378	-.35591	.10678	-.03778	.19244
GRADIENT		.00247	-.00020	.00029	-.03062	.00931	-.03344	-.00014

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AEDC VA-422(1A-57), ORB/ET W/BOOTH SRB

(RTL000) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 SQ.FT. XMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SRP = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
 SRP08 = 3.220 RV/L = 1.790
 PT-JET = 1500.000 BETA = .000

RUN NO. 00/0 RV/L = 1.67 GRADIENT INTERVAL = -9.00/ 1.00

NACH	ALPHA	BETA	ON	QJM	CY	CTN	CSL	CA
4.500	-10.000	.36090	-.04982	-.02776	-.23993	-.03623	-.00093	.17040
4.500	-9.000	.36039	-.02480	-.03434	-.22133	-.04260	-.00132	.16739
4.500	-8.000	.35406	-.00169	-.03906	-.20326	-.04727	-.00210	.16477
4.500	-7.000	.34972	.02033	-.04322	-.19073	-.03169	-.00246	.16107
4.500	-6.000	.34454	.03710	-.04610	-.17699	-.02927	-.00216	.15927
4.500	-5.000	.34353	.03846	-.05194	-.16352	-.06229	-.00160	.15320
4.500	-4.000	.34270	.08117	-.03871	-.15071	-.06739	-.00103	.14739
4.500	-3.000	.34318	.10333	-.06626	-.13994	-.07294	-.00021	.13993
4.500	-2.000	.34490	.13353	-.07638	-.13229	-.07713	.00056	.13290
4.500	-1.000	.34319	.16094	-.08377	-.12676	-.08009	.00111	.12936
4.500	.000	.34673	.18667	-.09500	-.12043	-.08326	.00304	.11992
4.500	1.000	.34466	.21233	-.10406	-.11144	-.08569	.00312	.11490
4.500	2.000	.34157	.23766	-.11297	-.10243	-.08970	.00726	.11133
4.500	3.000	.33990	.26140	-.12118	-.09223	-.09232	.00903	.10921
4.500	4.000	.33263	.29302	-.12896	-.08307	-.09434	.01063	.10376
4.500	5.000	.33069	.30312	-.13703	-.07774	-.09736	.01276	.10461
4.500	6.000	.32935	.32727	-.14473	-.07237	-.09963	.01517	.10367
4.500	7.000	.32746	.34807	-.15126	-.06889	-.10067	.01717	.10400
4.500	8.000	.32435	.36734	-.15668	-.06736	-.10033	.01901	.10476
4.500	9.000	.31973	.38603	-.16071	-.06493	-.09994	.02036	.10660
4.500	10.000	.31462	.40467	-.16440	-.06264	-.09911	.02181	.10651
GRADIENT		-.00122	.02317	-.00873	.00925	-.00340	.00149	-.00606

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ERTL001 (16 APR 74)

AEDC VA-422(1A-57) - CR/VET W/BOTH SRB

REFERENCE DATA

SRF = 2890.0000 59. FT. YARP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YARP = .0000 IN. YT
 SRF = 1290.3000 IN. ZARP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
 SRP08 = 3.200 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 59/ 0 RV/L = 1.86 GRADIENT INTERVAL = -3.00/ 5.00

WACH	BETA	ALPHA	ON	CL	CY	CIN	COL	CA
4.500	-10.000	-.09239	.21071	-.1055	.32849	-.23037	.04966	.19225
4.500	-9.000	-.08870	.2027	-.10236	.27029	-.21079	.04451	.14830
4.500	-8.000	-.08558	.19773	-.09872	.21163	-.19039	.03961	.10394
4.500	-7.000	-.08162	.19030	-.09738	.15822	-.17066	.03281	.13492
4.500	-6.000	-.07956	.18226	-.09419	.13256	-.15738	.02891	.13032
4.500	-5.000	-.07591	.17374	-.09132	.04991	-.13029	.02004	.12576
4.500	-4.000	-.07374	.16993	-.08942	.00036	-.11167	.01357	.12016
4.500	-3.000	-.07218	.16829	-.08678	-.04345	-.09709	.00686	.11561
4.500	-2.000	-.07150	.16594	-.08903	-.07967	-.08853	.00321	.11637
4.500	-1.000	-.07063	.16336	-.08772	-.10677	-.08434	.00282	.11970
4.500	.000	-.06937	.16109	-.08649	-.18765	-.08051	.00253	.11509
4.500	1.000	-.06834	.16113	-.08699	-.14848	-.07593	.00092	.11582
4.500	2.000	-.06536	.16132	-.08793	-.17313	-.07157	-.00128	.11133
4.500	3.000	-.06261	.16134	-.08921	-.19906	-.06666	-.00327	.10783
4.500	4.000	-.06160	.15777	-.08649	-.22217	-.06323	-.00454	.10318
4.500	5.000	-.06163	.15343	-.08772	-.24419	-.0627	-.02303	.10329
4.500	6.000	-.06070	.14775	-.08559	-.28443	-.05773	-.00317	.10237
4.500	7.000	-.05754	.14354	-.08303	-.29023	-.05314	-.00359	.10170
4.500	8.000	-.05637	.13421	-.07864	-.31741	-.04923	-.00914	.17224
4.500	9.000	-.05748	.12896	-.07583	-.34577	-.04590	-.01201	.10506
4.500	10.000	-.06001	.12343	-.07354	-.37444	-.04250	-.01422	.10623
GRADIENT		.00155	-.00175	.00024	-.02776	-.03516	-.00218	-.00186

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AEDC VA-482(1A-57), CRIB/ET W/BOTH SRB (WIND OFF) (RTL084) (16 APR 74)

REFERENCE DATA

SRP = 2680.0000 50.FT. YMRP = 1032.0000 IN. XT
 LMRP = 1280.3000 IN. YMRP = .0000 IN. YT
 SRRP = 1280.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RV/L = .000
 PT-JET = 750.000 BETA = .000

RUN NO. 44/ 0 RV/L = 2.22 GRADIENT INTERVAL = -3.50/ 9.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	CEL	CA
4.510	-10.000	.00111	-.00140	-.00011	-.00177	.00005	.00101	.17470
4.510	-9.000	.00163	.04353	-.10296	.00091	-.00143	.00169	.17731
4.510	-8.000	.00212	.08214	-.12568	.00077	-.00153	.00160	.17992
4.510	-7.000	.00196	.13997	-.14900	.00258	-.00235	.00108	.18104
4.510	-6.000	.00132	.18638	-.17145	.00288	-.00227	.00119	.17541
4.510	-5.000	.00046	.22950	-.19096	.00412	-.00256	-.00098	.17758
4.510	-4.000	.00017	.25823	-.20114	.00747	-.00408	-.00198	.17310
4.510	-3.000	.00104	.27341	-.20238	.01155	-.00629	-.00185	.15952
4.510	-2.000	.00136	.28037	-.19821	.01239	-.00675	-.00104	.14574
4.510	-1.000	.00396	.29116	-.19875	.01436	-.00856	.00015	.14270
4.510	.000	.00379	.30483	-.20163	.01097	-.00692	-.00047	.14047
4.510	1.000	.00219	.32058	-.20563	.00447	-.00312	-.00197	.13976
4.510	2.000	.00110	.34171	-.21218	-.00445	-.00199	-.00253	.14287
4.510	3.000	.00280	.36854	-.22205	-.00667	.00209	-.00357	.14880
4.510	4.000	-.00045	.40345	-.23760	-.00115	.00034	-.00351	.15101
4.510	5.000	-.00936	.43863	-.25363	.00950	-.00156	-.00311	.15270
4.510	6.000	-.02039	.47634	-.27758	.00803	.00231	-.00225	.15381
4.510	7.000	-.02225	.51092	-.29521	.00419	.00344	-.00275	.15367
4.510	8.000	-.02541	.54326	-.31143	.00134	.00793	-.00312	.15390
4.510	9.000	-.02899	.57953	-.32653	-.00130	.01048	-.00330	.15420
4.510	10.000	-.02956	.61393	-.34079	-.00428	.01217	-.00385	.15417
	GRADIENT	-.00044	.01876	-.00503	-.00096	.00064	-.00027	-.00234

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AEDC VA-422(1A-57), ORB/ET W/BOTH SRB (P/P MODE)

(R7L005) (18 APR 74) (72 MAY 91)

REFERENCE DATA

98E3	=	2890,000	IN.	YT	98E3	=	1092,000	IN.	YT
98E2	=	1290,300	IN.	YT	98E2	=	,000	IN.	YT
98E1	=	1290,300	IN.	YT	98E1	=	447,000	IN.	YT
SCALE	=				SCALE	=	.0192		

PARAMETRIC DATA

L-503	=	1,500	R-203	=	1,000
SREPO6	=	1,100	RAVL	=	1,780
PT-JET	=	1,900,000	BETA	=	.007

11/ 0	1.00	GRADIENT INTERVAL =	-5.00/	5.00
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MAOI	ALPHA	BETA	ON	CLM	CY	CYN	COL	CA
4.500	-10.720	-.00065	-.23487	-.22677	-.03312	.01485	-.00216	-.00360
4.500	-5.686	.00669	-.10917	-.26729	-.01780	.00434	-.00077	.00445
4.500	-.537	.01912	.00676	-.28445	-.02793	.00454	-.00175	.00619
4.500	4.553	.00370	.09126	-.26727	-.01343	.00329	-.00196	-.01469
4.500	9.754	.02493	.19156	-.28396	-.01396	-.00433	-.00245	-.01854
GRADIENT		-.00264	.01660	-.00335	.00283	-.00025	-.00004	-.00128

AEDC VA-422(1A-57), ORB/ET W/BOTH SRB (P/P MODE)

DTL000 (10 APR 74)

REFERENCE DATA

9557 = 2660,0000 SQ.FT. YGRP = 1052,0000 IN. YI
 9558 = 1250,3000 IN. YMRP = .0000 IN. YI
 9559 = 1250,3000 IN. ZGRP = 447,0000 IN. ZI
 9560 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1,000 R-SRB = 1,000
SRBOS = 1,100 RV/L = 1,780
PT-JET = 1,500,000 ALPHA = 500

RUN NO. 12/ 0 RVL = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

	BETA	ALPHA	ON	CLM	CY	CYN	CEL	CA
MAOH								
4.500	-10.014	-60322	-00871	-27948	.16644	-.06276	.02093	-.00608
4.500	-5.031	-61492	-.03680	-.27555	.06489	-.01110	-.00391	-.00391
4.500	-.008	-.55009	-.00745	-.26537	.05147	-.00761	-.00239	-.01367
4.500	5.066	-.49655	-.00904	-.25301	-.08391	.01693	-.01766	-.01582
4.500		-.46352	.02176	-.24636	-.17809	.03172	-.01731	-.00431
GRAIENT			.00000	.00000	.00000	.00000	.00000	.00000

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AEDC VA-422(1A-57); ORB/ET W/BOTH SRB (P/P MODE)

(RTLOOY) (13 APR 74)

REFERENCE DATA

SRF	=	2650,0000	60,FT.	YARP	=	1052,0000	IN. ZT
LRF	=	1250,3000	IN.	YARP	=	,0000	IN. YT
BRF	=	1250,3000	IN.	ZARP	=	447,0000	IN. ZT
SCALE	>	,0100					

PARAMETRIC DATA

L-SRB	=	2.000	R-SRB	=	2.000
SRBPOS	=	2.200	RAVL	=	1.760
PT-JET	=	1900.000	BETA	=	.000

RUN NO. 27/ 0 RVL = 1.04 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

AEDC VA-422(1A-57), ORB/ET W80TH SRB (P/P MODE)

(RTLD88) (18 APR 74)

REFERENCE DATA

SREF =	2680.0000	59. FT.	XREF =	1882.0000	IN. ZT
LREF =	1250.3000	IN.	YREF =	.0000	IN. YT
BREF =	1250.3000	IN.	ZREF =	447.0000	IN. ZT
SCALE =	.0100				

PARAMETRIC DATA

L-SRB	=	2,000	R-SRB	=	2,000
SREPOS	=	2,200	RVL	=	1,760
PT-JET	=	1,500,000	ALPHA	=	.500

RUN NO.	28/0	RMV = 1.84	GRADIENT INTERVAL = -3.00V	5.00
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[illegible]

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB (P/P MODE)

(RTLD99) (18 APR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RV/L = 1.780
 PT-JET = 1900.000 BETA = .000

RUN NO. 48/ 0 RV/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	QJH	CY	CYN	CEL	CA
4.500	-10.232	-.00266	.10439	-.13760	-.00311	.00102	.00077	.16418
4.500	-5.193	-.00307	.24316	-.19425	-.00642	.00304	.00003	.13899
4.500	-.128	.00238	.33178	-.20808	.00385	-.00191	.12209	.13401
4.500	4.869	-.00577	.51016	-.29623	.00355	-.00006	-.00341	.14249
4.500	9.910	-.01121	.65624	-.35229	.01213	.00092	-.00014	.00253
GRADIENT		-.00163	.03571	-.01765	.00211	-.00014	-.00039	

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1052.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 SREF = 1290.3000 IN. ZMRP = 447.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RV/L = 1.780
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 49/ 0 RV/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	QJH	CY	CYN	CEL	CA
4.500	-10.003	-.17062	.29682	-.18738	.34228	-.15281	.04477	.16828
4.500	-3.008	-.15173	.31690	-.20121	.12103	-.05093	.01394	.12486
4.500	.001	-.14501	.31170	-.20131	-.00358	.00166	.00021	.11483
4.500	5.013	-.15003	.29949	-.19483	-.20730	.09776	-.02328	.14471
4.500	10.096	-.13984	.26070	-.16918	-.46390	.19450	-.03483	.16857
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

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AEDC VA-422(1A-57), ORB/ET WRIGHT SRB

(STL0077) (18 APR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YARP = 1167.0000 IN. X5
 LREF = 1290.3000 IN. YARP = .0000 IN. Y5
 BREF = 1290.3000 IN. ZARP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRBPCB = .100 RV/L = 1.400
 PT-JET = 1900.000 BETA = .000

RUN NO. 76/0 RV/L = 1.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	.16148	-1.14330	-.04472	.62032	.02133	-.01129	.07617
4.500	-9.500	.16062	-1.14130	-.04311	.62036	.02191	-.01109	.07491
4.500	-9.000	.16180	-1.13610	-.04321	.62061	.02149	-.01062	.07390
4.500	-8.500	.15460	-1.13060	-.04612	.62293	.02167	-.01103	.07186
4.500	-8.000	.15726	-1.12660	-.04634	.62290	.02104	-.01100	.07082
4.500	-7.500	.16125	-1.12210	-.04573	.62373	.02044	-.01070	.06994
4.500	-7.000	.16733	-1.11700	-.04416	.62241	.01961	-.00997	.06849
4.500	-6.500	.16221	-1.11300	-.04199	.61937	.01670	-.00949	.06936
4.500	-6.000	.16324	-1.10980	-.04093	.61884	.01647	-.00722	.06992
4.500	-5.500	.16380	-1.10660	-.04093	.61963	.01620	-.00944	.07036
4.500	-5.000	.16846	-1.10340	-.04025	.61738	.01969	-.00471	.06989
4.500	-4.500	.19364	-1.10040	-.03961	.61664	.01996	-.00263	.06937
4.500	-4.000	.19937	-1.09770	-.03901	.61644	.02017	-.00302	.06956
4.500	-3.500	.20443	-1.09430	-.03830	.61669	.02002	-.00300	.06763
4.500	-3.000	.20866	-1.09070	-.03736	.61703	.01963	-.00467	.06733
4.500	-2.500	.21262	-1.08640	-.03641	.61804	.01919	-.00393	.06769
4.500	-2.000	.21320	-1.08160	-.03540	.61976	.01864	-.00333	.06792
4.500	-1.500	.21553	-1.07720	-.03447	.62133	.01876	-.00346	.06847
4.500	-1.000	.21763	-1.07220	-.03339	.62222	.01897	-.00332	.06866
4.500	-0.500	.22215	-1.06790	-.03213	.62333	.01933	-.00266	.06836
4.500	0.000	.22363	-1.06230	-.03072	.62462	.01976	-.00139	.06737
4.500	0.500	.00472	.00333	.00392	-.00056	.00102	.00068	-.00724

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ADDC VA-422(1A-37), ORBIT WRIGHT 800

(181000) (10 APR 74)

REFERENCE DATA

SRP = 2000.0000 IN. 10
 LRP = 1200.0000 IN. 10
 SRP = 1200.0000 IN. 25
 SCALE = .0100

PARAMETRIC DATA

L-200 = .000 R-200 = 1.000
 SRP-00 = .100 RV/L = 1.400
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 75/ 0 RV/L = 1.51 GRADIENT INTERVAL = -9.00/ 9.00

MAOI	BETA	ALPHA	ON	CLM	CY	CTN	POL	MTL
4.500	-10.000	-31050	-1.07970	-.03953	.61824	.01745	.00706	.08358
4.500	-9.000	-30362	-1.07990	-.03904	.61800	.01707	.00449	.08063
4.500	-8.000	-30023	-1.08270	-.03939	.61808	.01684	.00192	.07801
4.500	-7.000	-29373	-1.08620	-.03969	.61828	.01677	-.00034	.07151
4.500	-6.000	-28769	-1.08940	-.03993	.61814	.01693	-.00286	.06772
4.500	-5.000	-28173	-1.09230	-.04041	.61817	.01713	-.00316	.06407
4.500	-4.000	-28509	-1.09340	-.04037	.61712	.01763	-.00039	.06430
4.500	-3.000	-28137	-1.09680	-.03998	.61523	.01769	-.00152	.06341
4.500	-2.000	-27779	-1.09920	-.04023	.61537	.01799	-.00033	.06209
4.500	-1.000	-27356	-1.10070	-.04041	.61501	.01837	-.00478	.06034
4.500	.000	-26873	-1.10310	-.04072	.61566	.01947	-.00724	.06141
4.500	1.000	-26324	-1.10410	-.04083	.61333	.02008	-.00884	.05824
4.500	2.000	-25104	-1.10310	-.04083	.61027	.02083	-.01450	.05574
4.500	3.000	-24452	-1.10690	-.04048	.60637	.02139	-.01780	.05338
4.500	4.000	-23724	-1.10990	-.03953	.60228	.02209	-.02171	.05091
4.500	5.000	-23103	-1.11240	-.03779	.59796	.02269	-.02363	.05190
4.500	6.000	-22330	-1.11690	-.03620	.59410	.02343	-.02621	.05332
4.500	7.000	-21876	-1.12060	-.03473	.59035	.02403	-.02861	.05437
4.500	8.000	-21500	-1.12360	-.03378	.58668	.02426	-.03006	.05534
4.500	9.000	-21136	-1.12690	-.03334	.58443	.02417	-.03125	.05664
4.500	10.000	-20870	-1.12840	-.03367	.58273	.02360	-.03244	.05774
	GRADIENT	.00563	-.00185	.00013	-.00180	.00036	-.00230	-.00144

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AEDC VA-422(1A-57), ORB/ET WRIGHT SRG

(STL008) (16 APR 74)

REFERENCE DATA

SRP = 2000.0000 84.FT. YARP = 1167.0000 IN. YS
 LRP = 1290.3000 IN. YARP = .0000 IN. YS
 SRP = 1290.3000 IN. ZARP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRPOS = .100 RV/L = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 88/ 0 RV/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	OM	CY	CYN	PCL	WTL
4.500	-10.000	.02800	-.07332	-.01027	.02455	.00632	-.00402	.23211
4.500	-9.000	.02722	-.06829	-.00892	.02175	.00565	-.00390	.22702
4.500	-8.000	.02635	-.05953	-.00736	.01839	.00493	-.00374	.22364
4.500	-7.000	.02559	-.05274	-.00614	.01560	.00440	-.00335	.21428
4.500	-6.000	.02487	-.04612	-.00491	.01206	.00389	-.00333	.20828
4.500	-5.000	.02398	-.03926	-.00380	.00850	.00370	-.00310	.20271
4.500	-4.000	.02367	-.03323	-.00237	.00437	.00391	-.00278	.19627
4.500	-3.000	.02380	-.02750	-.00135	-.00020	.00449	-.00259	.19305
4.500	-2.000	.02452	-.02161	-.00034	-.00443	.00532	-.00234	.18438
4.500	-1.000	.02504	-.01621	.00092	-.00617	.00633	-.00191	.17950
4.500	.000	.02564	-.01281	.00229	-.01104	.00736	-.00151	.17520
4.500	1.000	.02686	-.00862	.00363	-.01209	.00798	-.00109	.17191
4.500	2.000	.02811	-.00445	.00491	-.01153	.00831	-.00075	.16929
4.500	3.000	.02903	.00031	.00587	-.00932	.00818	-.00041	.16647
4.500	4.000	.03028	.00546	.00679	-.00623	.00787	.00009	.16305
4.500	5.000	.03235	.01100	.00774	-.00249	.00727	.00069	.15938
4.500	6.000	.03493	.01696	.00890	.00061	.00721	.00121	.15593
4.500	7.000	.03732	.02357	.00991	.00344	.00715	.00186	.15211
4.500	8.000	.03998	.03104	.01086	.00722	.00713	.00232	.14924
4.500	9.000	.04097	.03790	.01227	.00976	.00749	.00309	.14673
4.500	10.000	.04261	.04621	.01311	.01256	.00767	.00391	.14462
GRADIENT		.00085	.00493	.00118	-.00130	.00046	.00037	-.00417

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AEDC VA-422(1A-97), ORBIT WEIGHT 808

(STL010) (10 APR 74)

REFERENCE DATA

SRCP = 2400.0000 SQ.FT. 1000P = 1107.0000 IN. X8
 LREF = 1250.3000 IN. Y140P = .0000 IN. Y5
 BRCP = 1250.3000 IN. Z40P = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-908 = .000 R-908 = 1.000
 SRCP08 = .100 RV/L = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO. 70/ 0 RV/L = 1.85 GRADIENT INTERVAL = -3.50/ 5.00

MACH	BETA	ALPHA	ON	QJA	CY	CYN	PO	HPL
4.500	-10.000	-.13604	.00133	-.00479	.00689	.00574	.00333	.19620
4.500	-9.000	-.13104	.00094	-.00499	.00691	.00575	.02937	.19335
4.500	-8.000	-.12573	-.00022	-.00432	.00602	.00570	.02355	.19041
4.500	-7.000	-.12020	-.00146	-.00412	.00519	.00580	.02170	.18694
4.500	-6.000	-.11494	-.00314	-.00347	.00370	.00600	.01609	.18423
4.500	-5.000	-.11051	-.00506	-.00268	.00161	.00622	.01447	.18132
4.500	-4.000	-.10520	-.00639	-.00198	-.00029	.00623	.01092	.17845
4.500	-3.000	-.10066	-.00841	-.00104	-.00321	.00635	.00757	.17571
4.500	-2.000	-.09694	-.01074	.00702	-.00385	.00580	.00424	.17390
4.500	-1.000	-.09309	-.01315	.00791	-.00602	.00685	.00049	.17340
4.500	1.000	-.08975	-.01515	.00145	-.00992	.00676	-.00304	.17394
4.500	2.000	-.08704	-.01715	.00192	-.01179	.00681	-.00632	.17320
4.500	3.000	-.08487	-.01938	.00237	-.01409	.00677	-.01006	.17624
4.500	4.000	-.08311	-.02154	.00331	-.01686	.00700	-.01316	.17765
4.500	5.000	-.08283	-.02399	.00430	-.02019	.00713	-.01607	.17738
4.500	6.000	-.08211	-.02643	.00569	-.02252	.00713	-.01907	.17725
4.500	7.000	-.08191	-.02954	.00699	-.02491	.00726	-.02232	.17769
4.500	8.000	-.08260	-.03222	.00797	-.02665	.00701	-.02588	.17944
4.500	9.000	-.08277	-.03511	.00903	-.02861	.00726	-.02938	.18120
4.500	10.000	-.08306	-.03809	.01002	-.03100	.00734	-.03330	.18299
4.500	10.000	-.08451	-.04103	.01112	-.03332	.00773	-.03694	.18573
4.500	GRADIENT	.00286	-.00216	.00079	-.00239	.00009	-.00340	-.00011

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(157L011) (16 APR 74)

AEDC VA-422(1.-57), ORBIT WRIGHT SRB

REFERENCE DATA

SRP = 2690.0000 SA. FT. 104RP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRP-OS = .100 RVL = 1.760
 PT-JET = 750.000 BETA = .000

RUN NO. 72/ 0 RVL = 1.86 GRADIENT INTERVAL = -.9.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MIL
4.900	-10.000	.10079	-.90424	-.02483	.25888	.01188	-.01102	.12214
4.900	-9.000	.10159	-.49927	-.02368	.25748	.01151	-.01024	.11950
4.900	-8.000	.10239	-.49372	-.02281	.25677	.01117	-.00950	.11685
4.900	-7.000	.10369	-.48834	-.02171	.25579	.01089	-.00890	.11418
4.900	-6.000	.10369	-.48299	-.02062	.25472	.01059	-.00845	.11122
4.900	-5.000	.10351	-.47755	-.01933	.25370	.01061	-.00868	.10672
4.900	-4.000	.10321	-.47377	-.01849	.25253	.01048	-.00818	.10368
4.900	-3.000	.10224	-.46950	-.01743	.25085	.01035	-.00735	.10286
4.900	-2.000	.10223	-.46509	-.01653	.24934	.01033	-.00698	.09864
4.900	-1.000	.10452	-.46035	-.01579	.24755	.01037	-.00638	.09593
4.900	.000	.10764	-.45577	-.01522	.24626	.01101	-.00585	.09634
4.900	1.000	.10886	-.45301	-.01483	.24614	.01098	-.00629	.09523
4.900	2.000	.10872	-.44944	-.01453	.24735	.01043	-.00703	.09357
4.900	3.000	.11180	-.44535	-.01449	.24847	.01026	-.00728	.09251
4.900	4.000	.11553	-.44129	-.01389	.24978	.01039	-.00707	.09238
4.900	5.000	.11691	-.43544	-.01330	.25360	.01345	-.00569	.08952
4.900	6.000	.11372	-.43069	-.01203	.25831	.01423	-.00508	.08950
4.900	7.000	.11517	-.42607	-.01096	.26053	.01453	-.00408	.08933
4.900	8.000	.11750	-.42010	-.00927	.26289	.01488	-.00310	.08904
4.900	9.000	.11899	-.41472	-.00764	.26572	.01535	-.00244	.08770
4.900	10.000	.12170	-.40844	-.00637	.26952	.01620	-.00162	.08605
4.900	GRADIENT	.00138	.00410	.00058	.00012	.00013	.00018	-.00151

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AEDC VA-422(1A-57), ORB/ET WEIGHT 888

(87LD12) (18 APR 74)

REFERENCE DATA

8807 = 2000.0000 SQ.FT. 100P = 1167.0000 IN. X8
 1007 = 1250.3000 IN. 100P = .0000 IN. Y8
 9007 = 1250.9000 IN. 200P = 400.0000 IN. Z8
 SCALE = .0120

PARAMETRIC DATA

L-908 = .0000 R-908 = 1.0000
 90908 = .1000 RV/L = 1.7600
 PT-JET = 750.0000 ALPHA = .0000

RUN NO. 71/ 0 RV/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	QUM	CY	CYN	PCL	MTL
4.900	-10.000	-.23778	-.44368	-.01940	.25326	.00754	.01962	.12830
4.900	-9.000	-.22935	-.44750	-.01934	.25305	.00777	.01624	.12391
4.900	-8.000	-.22184	-.44909	-.01936	.25478	.00783	.01323	.11913
4.900	-7.000	-.21394	-.45029	-.01939	.25491	.00814	.01033	.11447
4.900	-6.000	-.20682	-.45178	-.01939	.25453	.00886	.00746	.11027
4.900	-5.000	-.20067	-.45363	-.01934	.25420	.00917	.00548	.10732
4.900	-4.000	-.19392	-.45394	-.01883	.25387	.00935	.00350	.10413
4.900	-3.000	-.18640	-.45909	-.01810	.25308	.00991	.00119	.10049
4.900	-2.000	-.17966	-.45980	-.01695	.25124	.01040	- .00165	.09699
4.900	-1.000	-.17487	-.46079	-.01603	.24948	.01074	-.00435	.09315
4.900	.000	-.17223	-.46212	-.01547	.24778	.01124	-.00596	.09263
4.900	1.000	-.16898	-.46287	-.01556	.24503	.01172	-.00735	.09163
4.900	2.000	-.16359	-.46386	-.01318	.24184	.01163	-.00723	.09116
4.900	3.000	-.16.80	-.46577	-.01486	.23932	.01220	-.01093	.08968
4.900	4.000	-.16131	-.46793	-.01382	.23668	.01282	-.01276	.08838
4.900	5.000	-.16078	-.47027	-.01288	.23430	.01313	-.01484	.08734
4.900	6.000	-.15995	-.47303	-.01186	.23185	.01350	-.01721	.08194
4.900	7.000	-.16012	-.47547	-.01101	.22977	.01359	-.01939	.08303
4.900	8.000	-.15912	-.47727	-.01035	.22770	.01357	-.02157	.08618
4.900	9.000	-.15717	-.47931	-.00979	.22532	.01343	-.02402	.08673
4.900	10.000	-.15633	-.48108	-.00970	.22335	.01370	-.02626	.10079
4.900	GRADIENT	.00593	-.00151	.00061	-.00212	.00039	-.00201	-.00171

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2DC VA-422(1A-57), ORB/ET WEIGHT 878

(07L013) (10 AP 1)

REFERENCE DATA

WREF = 2000.0000 SQ.FT. XREF = 1107.0000 IN. X8
 YREF = 1250.3000 IN. YREF = .0000 IN. Y5
 ZREF = 1250.3000 IN. ZREF = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 1.000
 SRBPOS = .100 RV/L = 1.780
 PT-JET = 1900.000 SETA = .900

RUN NO. 75/ 0 RV/L = 1.88 GRADIENT INTERVAL = -3.00/ 3.00

WACH	ALPHA	BETA	ON	CLM	CV	CTM	PCL	MTL
4.500	-10.000	.1976	-.9343	-.03791	.50206	.01536	-.01003	.06372
4.500	-9.000	.1536	-.9333	-.03606	.50225	.02339	-.01041	.06329
4.500	-8.000	.15190	-.92919	-.03639	.50200	.01996	-.01068	.06183
4.500	-7.000	.15226	-.92226	-.03617	.50233	.01873	-.01093	.06034
4.500	-6.000	.15334	-.91628	-.03744	.50144	.01776	-.01191	.07921
4.500	-5.000	.15985	-.91043	-.03699	.50142	.01733	-.01342	.07948
4.500	-4.000	.16322	-.90380	-.03640	.50096	.01656	-.01399	.07717
4.500	-3.000	.17165	-.90260	-.03373	.50079	.01635	-.01334	.07595
4.500	-2.000	.17796	-.89778	-.03464	.49988	.01626	-.01274	.07462
4.500	-1.000	.18449	-.89216	-.03395	.49894	.01644	-.01203	.07315
4.500	1.000	.19907	-.88493	-.03292	.49796	.01661	-.01087	.07273
4.500	2.000	.20335	-.88093	-.03232	.49732	.01686	-.00976	.07291
4.500	3.000	.20962	-.88308	-.03186	.49735	.01693	-.00871	.07283
4.500	4.000	.21623	-.88031	-.03036	.49747	.01696	-.00743	.07277
4.500	5.000	.22263	-.87627	-.02945	.49768	.01679	-.00599	.07237
4.500	6.000	.22603	-.87153	-.02836	.49808	.01680	-.00480	.07251
4.500	7.000	.22696	-.86663	-.02775	.50091	.01621	-.00391	.07240
4.500	8.000	.22978	-.86161	-.02693	.50266	.01590	-.00382	.07278
4.500	9.000	.23446	-.85620	-.02536	.50364	.01609	-.00343	.07284
4.500	10.000	.23743	-.85006	-.02379	.50496	.01623	-.00285	.07234
GRADIENT		.00633	.00321	.00075	-.00037	.00002	.00394	-.00399

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AEDC VA-422(1A-57), ORB/ET WRIGHT SRB

(10TLO1A) (16 APR 74)

REFERENCE DATA

SRIF = 2490.0000 80. FT. XDRP = 1167.0000 IN. XS
 UPRF = 1290.3000 IN. YMRP = .0000 IN. YS
 BRIF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .002 R-SRB = 1.000
 STROPS = .100 RW/L = 1.790
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 74/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	QJA	CT	CTM	PCL	MTL
4.500	-10.000	-.72836	-.86904	-.03232	.49915	.01363	.01184	.09912
4.500	-9.500	-.32120	-.87030	-.03320	.49848	.01323	.00900	.09337
4.500	-8.000	-.31457	-.87312	-.03340	.49819	.01320	.00874	.08978
4.500	-7.000	-.31782	-.87609	-.03351	.49771	.01341	.00454	.08378
4.500	-6.000	-.30159	-.87882	-.03363	.49751	.01360	.00222	.07972
4.500	-5.000	-.29525	-.88176	-.03391	.49760	.01369	-.00040	.07617
4.500	-4.000	-.28888	-.88254	-.03407	.49684	.01437	-.00308	.07347
4.500	-3.000	-.28369	-.88292	-.03336	.49476	.01480	-.00382	.07186
4.500	-2.000	-.28169	-.88382	-.03353	.49351	.01310	-.00909	.07033
4.500	-1.000	-.28006	-.88340	-.03354	.49359	.01607	-.01105	.07020
4.500	.000	-.27596	-.88708	-.03338	.49135	.01668	-.01262	.06959
4.500	1.000	-.28716	-.88903	-.03331	.48911	.01758	-.01426	.06493
4.500	2.000	-.28148	-.89091	-.03308	.48634	.01802	-.01693	.06339
4.500	3.000	-.25557	-.89307	-.03270	.48346	.01848	-.01970	.06207
4.500	4.000	-.24994	-.89479	-.03228	.48136	.01891	-.02189	.06293
4.500	5.000	-.24472	-.89653	-.03104	.47601	.01970	-.02382	.06364
4.500	6.000	-.24039	-.90129	-.02937	.47227	.02072	-.02323	.06392
4.500	7.000	-.23667	-.90352	-.02806	.46947	.02118	-.02526	.06499
4.500	8.000	-.23170	-.90886	-.02716	.46693	.02138	-.02632	.06681
4.500	9.000	-.22843	-.91077	-.02690	.46460	.02102	-.02696	.06752
4.500	10.000	-.22659	-.91206	-.02709	.46263	.02003	-.02901	.06833
	GRADIENT	.00496	-.00156	.00022	-.00205	.00060	-.00232	-.00139

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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AEDC VA-422(1A-57), ORBIT WEIGHT 598

(ATL015) (18 APR 74)

REFERENCE DATA

WEP = 2000.0000 SQ.FT. 10000 = 1107.0000 IN. 15
 LREF = 1290.3000 IN. 10000 = .0000 IN. 75
 WREF = 1290.3000 IN. 10000 = 400.0000 IN. 25
 SCALE = .0100

PARAMETRIC DATA

L-SRS = .000 R-SRS = 2.000
 SRSFOS = .200 RW/L = 1.400
 PT-JET = 1500.000 BETA = .000

RUN NO. 08/ 0 RW/L = 1.50 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	ALPHA	BETA	ON	CLH	CT	CTN	PC	MTL
4.500	-10.000	.31721	-1.10000	-.06523	.67154	.04356	-.01283	.15902
4.500	-8.000	.32475	-1.10310	-.06463	.67137	.04477	-.01248	.15787
4.500	-6.000	.33268	-1.17980	-.06383	.67138	.04416	-.01245	.15459
4.500	-7.000	.33669	-1.17080	-.06304	.67098	.04322	-.01253	.15183
4.500	-6.000	.33814	-1.16410	-.06183	.66979	.04283	-.01278	.14900
4.500	-5.000	.33026	-1.15900	-.06036	.66562	.04224	-.01312	.14288
4.500	-4.000	.32377	-1.15430	-.05900	.66212	.04206	-.01393	.13917
4.500	-3.000	.31910	-1.15060	-.05745	.65998	.04232	-.01449	.13297
4.500	-2.000	.31644	-1.14750	-.05331	.65797	.04279	-.01531	.12988
4.500	-1.000	.31388	-1.14470	-.05276	.65710	.04322	-.01601	.12461
4.500	.000	.31301	-1.14220	-.05238	.65744	.04338	-.01647	.12223
4.500	1.000	.31109	-1.13970	-.04843	.65888	.04298	-.01682	.11563
4.500	2.000	.31113	-1.13560	-.04632	.66237	.04092	-.01759	.11234
4.500	3.000	.31033	-1.13130	-.04458	.66528	.03993	-.01736	.10908
4.500	4.000	.30942	-1.12590	-.04331	.67033	.03716	-.01744	.10379
4.500	5.000	.30755	-1.12110	-.04191	.67495	.03353	-.01780	.10216
4.500	6.000	.30579	-1.11530	-.04060	.67939	.03419	-.01778	.09873
4.500	7.000	.30120	-1.10960	-.03921	.68321	.03253	-.01742	.09688
4.500	8.000	.29577	-1.10330	-.03757	.69045	.03102	-.01634	.09445
4.500	9.000	.28294	-1.09770	-.03598	.69449	.02989	-.01542	.09240
4.500	10.000	.26930	-1.09080	-.03439	.69742	.02896	-.01441	.09032
4.500	GRADIENT	-.00192	.00335	.00197	.00100	-.00062	-.00046	-.00403

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AEDC VA-422(1A-57), ORB/ET WRIGHT 888

1371010 (16 APR 74)

REFERENCE DATA

SPOT = 2980.0000 50. FT. 1000 = 1187.0000 IN. XS
 LREF = 1250.3000 IN. YMRP = .0000 IN. YS
 SPOT = 1250.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0120

PARAMETRIC DATA

L-978 = .000 R-978 = 2.000
 SPOT8 = .200 RV/L = 1.000
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 67/ 0 RV/L = 1.51 GRADIENT INTERVAL = -9.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CY	CTN	MD	MTL
4.500	-10.000	-.03883	-1.13040	-.03948	.71223	.03339	.02288	.15086
4.500	-9.000	-.03479	-1.13340	-.06019	.71346	.05.59	.01893	.14377
4.500	-8.000	-.03243	-1.13720	-.06015	.71321	.05010	.01343	.13827
4.500	-7.000	-.03335	-1.14170	-.03985	.71156	.04920	.00797	.12979
4.500	-6.000	-.03097	-1.14400	-.03951	.70798	.04850	.00293	.12543
4.500	-5.000	-.02488	-1.14730	-.03962	.70037	.04804	-.00163	.11340
4.500	-4.000	-.01987	-1.14640	-.03748	.69339	.04777	-.03450	.11020
4.500	-3.000	-.01693	-1.14600	-.03586	.68049	.04726	-.00711	.11141
4.500	-2.000	-.01314	-1.14500	-.03413	.67104	.0464	-.00983	.11312
4.500	-1.000	-.00962	-1.14420	-.03251	.66258	.04488	-.01330	.11489
4.500	.000	-.00429	-1.14280	-.03170	.65343	.04292	-.01696	.11697
4.500	1.000	-.00221	-1.14120	-.03124	.64934	.04073	-.02023	.11723
4.500	2.000	-.00267	-1.14050	-.03079	.64507	.03950	-.02272	.11956
4.500	3.000	-.00343	-1.14160	-.03082	.64182	.03881	-.02274	.11927
4.500	4.000	-.00303	-1.14320	-.03063	.63751	.03551	-.02279	.11743
4.500	5.000	-.01265	-1.14420	-.04988	.63170	.03390	-.02251	.11480
4.500	6.000	-.01397	-1.14310	-.04931	.62682	.03222	-.02130	.11230
4.500	7.000	-.01363	-1.14800	-.04874	.62182	.03063	-.02079	.11219
4.500	8.000	-.01277	-1.14920	-.04833	.61727	.02848	-.02137	.11362
4.500	9.000	-.01025	-1.15060	-.04814	.61450	.02895	-.02294	.11649
4.500	10.000	-.00996	-1.15200	-.04757	.61125	.02409	-.02682	.12790
GRADIENT		.00151	.00049	.00086	-.00671	-.00133	-.00233	.00068

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AEDC VA-422(11A-37), ORBIT WRIGHT SRB

(1511017) (16 APR 74)

REFERENCE DATA

SREF = 2680.0000 SQ. FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRBOS = .200 RV/L = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 61/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	.04321	-.10385	-.00881	.03722	.01226	.00085	.23498
4.500	-9.000	.03857	-.09410	-.00905	.03718	.01134	.00057	.23047
4.500	-8.000	.03434	-.08405	-.00753	.03643	.01038	.00063	.22508
4.500	-7.000	.02975	-.07425	-.00724	.03541	.00949	.00061	.21929
4.500	-6.000	.02498	-.06502	-.00711	.03510	.00849	.00064	.21357
4.500	-5.000	.02047	-.05638	-.00669	.03469	.00760	.00063	.20754
4.500	-4.000	.01616	-.04858	-.00636	.03477	.00734	.00062	.20116
4.500	-3.000	.01169	-.04160	-.00575	.03537	.00731	.00065	.19471
4.500	-2.000	.00753	-.03542	-.00504	.03286	.00730	.00055	.18915
4.500	-1.000	.00316	-.02913	-.00430	.03296	.00714	.00060	.18394
4.500	.000	-.00134	-.02272	-.00374	.03390	.00681	.00053	.17975
4.500	1.000	-.00595	-.01618	-.00326	.03465	.00656	.00000	.17644
4.500	2.000	-.01066	-.01091	-.00229	.03446	.00653	-.00098	.17384
4.500	3.000	-.01535	-.00622	-.00137	.03485	.00652	-.00207	.17220
4.500	4.000	-.01987	-.00261	-.00014	.03593	.00615	-.00295	.17042
4.500	5.000	-.02426	.00143	.00060	.03613	.00517	-.00321	.16841
4.500	6.000	-.02776	.00633	.00136	.04036	.00467	-.00328	.16566
4.500	7.000	-.03116	.01272	.00166	.04215	.00432	-.00293	.16282
4.500	8.000	-.03355	.01637	.00240	.04394	.00409	-.00231	.15989
4.500	9.000	-.03750	.02482	.00276	.04646	.00342	-.00187	.15750
4.500	10.000	-.04137	.03071	.00344	.04840	.00289	-.00134	.15524
GRADIENT		-.00449	.00593	.00074	.00023	-.00019	-.00041	-.00386

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AEDC VA-422(1A-97), CRUVEY WRIGHT SRG

(87LD18) (18 APR 74)

REFERENCE DATA

SRP = 2885.0000 90.FT. XMRP = 1167.0000 IN. X3
 LMRP = 1250.3700 IN. YMRP = .0000 IN. Y3
 SRP = 1250.3000 IN. ZMRP = 400.0000 IN. Z3
 SCALE = .0100

PARAMETRIC DATA

L-978 = .000 R-978 = 2.000
 SRP06 = .200 RV/L = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO. 62/ 0 RV/L = 1.69 GRADIENT INTERVAL = -5.00/ 5.00

HA01	BETA	ALPHA	ON	QJM	CY	CYN	PCL	MTL
4.500	-10.000	-.13268	-.01815	-.00704	.00056	.02032	.03336	.20271
4.500	-9.000	-.12859	-.02137	-.00688	.07640	.01864	.02973	.19904
4.500	-8.000	-.12090	-.02374	-.00612	.07202	.01763	.02838	.19590
4.500	-7.000	-.11434	-.02408	-.00590	.06673	.01647	.02504	.19252
4.500	-6.000	-.10652	-.02362	-.00529	.06175	.01507	.02000	.18930
4.500	-5.000	-.10490	-.02369	-.00496	.05647	.01398	.01681	.18602
4.500	-4.000	-.09996	-.02415	-.00490	.05114	.01231	.01291	.18405
4.500	-3.000	-.09580	-.02441	-.00472	.04561	.01097	.00962	.18213
4.500	-2.000	-.09213	-.02507	-.00443	.04154	.00962	.00626	.18090
4.500	-1.000	-.08969	-.02620	-.00416	.03696	.00839	.00291	.17868
4.500	.000	-.08759	-.02707	-.00368	.03243	.00704	-.00063	.17673
4.500	1.000	-.08509	-.02774	-.00324	.02841	.00557	-.00097	.18069
4.500	2.000	-.08339	-.02849	-.00271	.02420	.00450	-.00764	.18247
4.500	3.000	-.08290	-.02932	-.00229	.02029	.00336	-.01128	.18445
4.500	4.000	-.08246	-.03127	-.00142	.01636	.00217	-.01481	.18643
4.500	5.000	-.08396	-.03261	-.00067	.01347	.00073	-.01823	.18756
4.500	6.000	-.08619	-.03471	.00017	.00950	-.00041	-.02173	.18932
4.500	7.000	-.08769	-.03617	.00097	.00489	-.00157	-.02560	.19126
4.500	8.000	-.08904	-.03790	.00186	.00054	-.00266	-.02973	.19394
4.500	9.000	-.09035	-.03972	.00289	-.00331	-.00393	-.03350	.19630
4.500	10.000	-.09259	-.04142	.00422	-.00669	-.00493	-.03832	.19886
4.500	GRADIENT	.00212	-.00060	.00043	-.00430	-.00126	-.00346	.00027

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AEDC VA-422(1A-57), ORBIT WEIGHT 500

(87L019) (16 APR 74)

REFERENCE DATA

WREF = 2890.0000 50. FT. WARP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YARP = .0000 IN. YS
 BREF = 1290.3000 IN. ZARP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRBPO8 = .200 RNV/L = 1.780
 PT-JET = 790.000 BETA = .000

RUN NO. 64/ 0 RNV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	.17925	-.32403	-.03187	.28881	.02191	-.01219	.22578
4.500	-9.000	.18000	-.31751	-.03227	.28873	.02211	-.01219	.22076
4.500	-8.000	.17958	-.31127	-.03259	.28837	.02232	-.01231	.21534
4.500	-7.000	.17863	-.30570	-.03298	.28778	.02254	-.01232	.20945
4.500	-6.000	.17689	-.30032	-.03313	.28695	.02288	-.01261	.20396
4.500	-5.000	.17498	-.29577	-.03134	.28583	.02282	-.01280	.19732
4.500	-4.000	.17228	-.29041	-.03093	.28443	.02301	-.01277	.19042
4.500	-3.000	.16981	-.28413	-.03008	.28388	.02311	-.01270	.18438
4.500	-2.000	.16777	-.28248	-.02868	.28322	.02335	-.01281	.17757
4.500	-1.000	.16234	-.28040	-.02858	.28180	.02384	-.01291	.17129
4.500	.000	.15928	-.27862	-.02439	.28287	.02335	-.01324	.16384
4.500	1.000	.15816	-.27578	-.02220	.28345	.02277	-.01371	.16019
4.500	2.000	.15293	-.27203	-.02021	.28817	.02202	-.01420	.15471
4.500	3.000	.14970	-.26787	-.01863	.29080	.02147	-.01448	.14932
4.500	4.000	.14724	-.26428	-.01716	.29362	.02102	-.01451	.14442
4.500	5.000	.14547	-.25938	-.01606	.29696	.02024	-.01473	.13956
4.500	6.000	.14350	-.25492	-.01489	.30019	.01932	-.01485	.13410
4.500	7.000	.14470	-.25115	-.01397	.30307	.01821	-.01459	.12919
4.500	8.000	.14658	-.24824	-.01335	.31006	.01714	-.01396	.12477
4.500	9.000	.14981	-.24463	-.01287	.31336	.01631	-.01313	.12059
4.500	10.000	.15382	-.23571	-.01201	.31608	.01610	-.01237	.11658
4.500	GRADIENT	-.00307	.00333	.00171	.00118	-.00027	-.00023	-.00378



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AEDC VA-422(1A-57), ORB/ET WRIGHT 888

(81L020) (16 APR 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRP08 = .200 RW/L = 1.700
 PT-JET = 750.000 ALPHA = .000

RUN NO. 63/ 0 RW/L = 1.88 GRADIENT INTERVAL = -.5.00/ 5.00

MAOI	BETA	ALPHA	ON	CLM	CY	CTN	PCL	MPL
4.500	-10.000	-.11955	-.47509	-.02924	.34275	.03457	.01403	.18062
4.500	-9.000	-.11051	-.47739	-.02679	.34006	.03162	.01161	.17942
4.500	-8.000	-.10414	-.48090	-.02770	.33488	.02964	.00848	.17794
4.500	-7.000	-.09812	-.48333	-.02627	.32639	.02500	.00322	.17638
4.500	-6.000	-.09331	-.48497	-.02347	.31752	.02893	.00196	.17510
4.500	-5.000	-.08904	-.48583	-.02306	.30939	.02886	-.00119	.17507
4.500	-4.000	-.08562	-.48611	-.02483	.30270	.02803	-.00386	.17430
4.500	-3.000	-.08008	-.48611	-.02493	.29693	.02693	-.00387	.17166
4.500	-2.000	-.08991	-.48603	-.02493	.29158	.02391	-.00790	.16952
4.500	-1.000	-.08977	-.48496	-.02330	.28644	.02496	-.01067	.16814
4.500	.000	-.09010	-.48333	-.02358	.28216	.02396	-.01378	.16364
4.500	1.000	-.09090	-.48227	-.02368	.27670	.02236	-.01690	.16183
4.500	2.000	-.09116	-.48231	-.02335	.27366	.02072	-.01983	.16062
4.500	3.000	-.09168	-.48238	-.02486	.27210	.01910	-.02238	.15950
4.500	4.000	-.09261	-.48464	-.02436	.26763	.01799	-.02316	.15711
4.500	5.000	-.09347	-.48544	-.02427	.26285	.01690	-.02743	.15563
4.500	6.000	-.09455	-.48673	-.02400	.25942	.01590	-.03003	.15336
4.500	7.000	-.09412	-.48646	-.02366	.25504	.01478	-.03236	.15480
4.500	8.000	-.09316	-.49017	-.02324	.25156	.01379	-.03491	.15358
4.500	9.000	-.09270	-.49223	-.02277	.24836	.01273	-.03732	.15567
4.500	10.000	-.09337	-.49497	-.02238	.24590	.01135	-.03949	.15950
	GRADIENT	-.00027	.00026	.00004	-.00442	-.00125	-.00270	-.00206

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AEDC VA-422(1A-57), ORB/ET W/RIGHT SRB

(87L021) (16 APR 74)

REFERENCE DATA

SRP = 2080.0000 SQ.FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 2.000
 SRBPOS = .200 RNV/L = 1.780
 PT-JET = 1900.000 BETA = .000

RUN NO. 05/ 0 RNV/L = 1.90 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CY	CYN	PCL	MTL
4.500	-10.000	.35483	-.96137	-.03237	.54295	.03679	-.01163	.18614
4.500	-9.000	.35922	-.95536	-.03228	.54221	.03623	-.01182	.18339
4.500	-8.000	.35712	-.94895	-.03135	.54102	.03537	-.01218	.17855
4.500	-7.000	.35269	-.94426	-.03033	.53951	.03431	-.01255	.17437
4.500	-6.000	.34794	-.93995	-.02950	.53728	.03362	-.01296	.17010
4.500	-5.000	.34253	-.93604	-.02854	.53533	.03351	-.01301	.16591
4.500	-4.000	.34003	-.93293	-.02766	.53353	.03369	-.01300	.15982
4.500	-3.000	.33949	-.93017	-.02682	.53201	.03450	-.01348	.15342
4.500	-2.000	.33836	-.92667	-.02555	.53087	.03494	-.01391	.14674
4.500	-1.000	.33792	-.92326	-.02433	.52963	.03532	-.01442	.14077
4.500	.000	.33829	-.92020	-.02323	.52868	.03582	-.01515	.13467
4.500	1.000	.33634	-.91726	-.02031	.53160	.03575	-.01545	.12861
4.500	2.000	.33021	-.91470	-.01835	.53607	.03489	-.01534	.12272
4.500	3.000	.32357	-.91132	-.01648	.54180	.03345	-.01531	.11774
4.500	4.000	.31941	-.90555	-.01470	.54676	.03144	-.01534	.11365
4.500	5.000	.31641	-.89977	-.01317	.55192	.02961	-.01531	.11064
4.500	6.000	.31384	-.89390	-.01182	.55623	.02819	-.01576	.10702
4.500	7.000	.31123	-.88843	-.01046	.56066	.02690	-.01654	.10399
4.500	8.000	.30789	-.88337	-.00872	.56486	.02547	-.01642	.10099
4.500	9.000	.30596	-.87872	-.00732	.56853	.02458	-.01565	.09931
4.500	10.000	.30404	-.87325	-.00656	.57181	.02414	-.01483	.09666
4.500	GRADIENT	-.00253	.00343	.00161	.00161	-.00026	-.00027	-.00566

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AEDC VA-422(1A-57), CRB/ET WRIGHT SRS

(571022) (18 APR 74)

REFERENCE DATA

SRT = 2000.0000 20.FT. YMRP = 1167.0000 IN. XS
LREF = 1290.3000 IN. YMRP = .0000 IN. YS
SREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRS = .000 R-SRS = 2.000
SRSPOS = .000 RSVL = 1.790
PT-JET = 1500.000 ALPHA = .000

RUN NO. 00/ 0 RSVL = 1.80 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	BETA	ALPHA	ON	QJH	CY	CYN	PCL	MTL
4.500	-10.000	-.06251	-.91902	-.03148	.59312	.04967	.02233	.15319
4.500	-9.000	-.06285	-.91939	-.03136	.59344	.04745	.01679	.14939
4.500	-8.000	-.06116	-.92250	-.03125	.59317	.04322	.01123	.14301
4.500	-7.000	-.05612	-.92434	-.03031	.58862	.04324	.00578	.13681
4.500	-6.000	-.05224	-.92561	-.04903	.57990	.04230	.00315	.13234
4.500	-5.000	-.05103	-.92479	-.04710	.56857	.04162	.00001	.13040
4.500	-4.000	-.05024	-.92391	-.04513	.55759	.04116	-.00266	.13036
4.500	-3.000	-.04533	-.92294	-.04366	.54678	.04031	-.00668	.13361
4.500	-2.000	-.04210	-.92153	-.04293	.53968	.03939	-.01015	.13618
4.500	-1.000	-.04146	-.92060	-.04293	.53268	.03863	-.01266	.13693
4.500	.000	-.04061	-.92026	-.04320	.52618	.03522	-.01464	.13373
4.500	1.000	-.04091	-.92012	-.04331	.52359	.03397	-.01653	.12963
4.500	2.000	-.04221	-.91937	-.04347	.51651	.03240	-.01848	.12611
4.500	3.000	-.04301	-.91865	-.04329	.51395	.03037	-.02003	.12292
4.500	4.000	-.04395	-.92008	-.04325	.50943	.02893	-.02052	.12031
4.500	5.000	-.04422	-.92171	-.04316	.50583	.02710	-.02105	.11969
4.500	6.000	-.04470	-.92398	-.04294	.50181	.02534	-.02216	.11991
4.500	7.000	-.04390	-.92611	-.04245	.49629	.02343	-.02348	.12034
4.500	8.000	-.04393	-.92778	-.04197	.49495	.02166	-.02569	.12217
4.500	9.000	-.04531	-.92997	-.04147	.49186	.02037	-.02675	.12458
4.500	10.000	-.04732	-.93179	-.04076	.48646	.01907	-.03214	.12763
	GRADIENT	.00061	.00044	.00024	-.00595	-.00150	-.00215	-.00139

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(87L023) (18 APR 74)

AEDC VA-422(1A-57), ORBIT WRIGHT SRB

REFERENCE DATA

SRF = 2890.0000 50. FT. XPR = 1187.0000 IN. Y'S
 LRF = 1290.3000 IN. YMRP = .0000 IN. Y'S
 BRF = 1290.3000 IN. ZMRP = 400.0000 IN. Z'S
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.300
 SRP08 = .300 RV/L = 1.400
 PT-JET = 1900.000 BETA = .000

RUN NO. 84/ 0 RV/L = 1.31 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	BETA	CA	CJA	CY	CYN	PCL	MTL
4.500	-10.000	-.02719	-1.18190	-.05345	.66691	.03073	-.01809	.20318
4.500	-9.000	-.02725	-1.17870	-.05413	.66747	.03114	-.01842	.20234
4.500	-8.000	-.02793	-1.17370	-.05423	.66818	.03137	-.01908	.19750
4.500	-7.000	-.03035	-1.17260	-.05417	.66862	.03157	-.01997	.19364
4.500	-6.000	-.03136	-1.16930	-.05399	.66841	.03193	-.02092	.18994
4.500	-5.000	-.03217	-1.16490	-.05382	.66814	.03227	-.02117	.18580
4.500	-4.000	-.03149	-1.16040	-.05383	.66816	.03270	-.02068	.18181
4.500	-3.000	-.02690	-1.15630	-.05422	.66882	.03295	-.01968	.17711
4.500	-2.000	-.02114	-1.15290	-.05422	.66979	.03282	-.01898	.17148
4.500	-1.000	-.01352	-1.14730	-.05424	.67213	.03201	-.01903	.16632
4.500	.000	-.00676	-1.14160	-.05429	.67564	.03083	-.02154	.16461
4.500	1.000	.00087	-1.13640	-.05393	.68043	.02903	-.02344	.16263
4.500	2.000	.00570	-1.13230	-.05294	.68422	.02734	-.02896	.15989
4.500	3.000	.00720	-1.12930	-.05151	.68709	.02620	-.03098	.15649
4.500	4.000	.00622	-1.12760	-.04992	.68998	.02526	-.03259	.15204
4.500	5.000	.00399	-1.12420	-.04837	.69231	.02448	-.03441	.14812
4.500	6.000	.00034	-1.12070	-.04664	.69457	.02374	-.03556	.14435
4.500	7.000	-.00300	-1.11770	-.04481	.69702	.02304	-.03618	.14154
4.500	8.000	-.00806	-1.11490	-.04326	.70029	.02245	-.03681	.13839
4.500	9.000	-.01218	-1.11120	-.04177	.70229	.02220	-.03701	.13500
4.500	10.000	-.01235	-1.10830	-.03983	.70281	.02294	-.03602	.13236
4.500	GRADIENT	.00456	.03423	.00049	.00273	-.00093	-.00158	-.00339

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AEDC VA-422(1A-57), ORBIT WRIGHT SRB

(STL024) (16 APR 74)

REFERENCE DATA

SRP = 2490.0000 50 FT. YMRP = 1167.0000 IN. XS
 LREF = 1250.3000 IN. YMRP = .0000 IN. YS
 BRP = 1250.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRP-CB = .300 RV/L = 1.400
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 09/ 0 RV/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACI	BETA	ALPHA	ON	CLH	CY	CTN	PCD	MTL
4.500	-10.000	-.12444	-1.12410	-.05456	.72260	.03918	.00950	.15739
4.500	-9.000	-.12243	-1.12500	-.05476	.71656	.03906	.00984	.15518
4.500	-8.000	-.12139	-1.12630	-.05493	.71077	.03893	.00997	.15463
4.500	-7.000	-.11908	-1.12770	-.05498	.70477	.03884	-.00071	.15304
4.500	-6.000	-.11654	-1.12910	-.05493	.69967	.03876	-.00202	.15149
4.500	-5.000	-.11282	-1.13050	-.05490	.69479	.03863	-.00769	.15073
4.500	-4.000	-.10836	-1.13110	-.05496	.69043	.03849	-.01077	.15035
4.500	-3.000	-.10601	-1.13600	-.05500	.68615	.03896	-.01357	.15098
4.500	-2.000	-.10331	-1.13910	-.05500	.68140	.03911	-.01622	.15061
4.500	-1.000	-.10046	-1.14080	-.05435	.67396	.03833	-.01912	.15039
4.500	1.000	-.10083	-1.14280	-.05418	.67160	.03149	-.02163	.16123
4.500	2.000	-.10361	-1.14360	-.05371	.66709	.03054	-.02320	.16032
4.500	3.000	-.11016	-1.14460	-.05339	.66363	.02973	-.03046	.17239
4.500	4.000	-.11006	-1.14630	-.05330	.66027	.02869	-.03638	.17823
4.500	5.000	-.10701	-1.14750	-.05333	.65706	.02791	-.04409	.18314
4.500	6.000	-.09938	-1.14980	-.05338	.65433	.02694	-.05432	.18414
4.500	7.000	-.09930	-1.15150	-.05326	.65127	.02573	-.06433	.18487
4.500	8.000	-.08433	-1.15330	-.05311	.64967	.02393	-.07210	.18733
4.500	9.000	-.08234	-1.15390	-.05249	.64772	.02226	-.07683	.18939
4.500	10.000	-.08347	-1.15500	-.05183	.64543	.02086	-.08079	.19121
4.500	10.000	-.08166	-1.15600	-.05116	.64302	.02007	-.08337	.19324
4.500	GRADIENT	.00041	-.00183	.00021	-.00416	-.00067	-.00426	.00324

AEDC VA-422(1A-57), CRUJET WRIGHT SR6

(87L023) (16 APR 74)

REFERENCE DATA

SRP = 2680.0000 SA.FT. YMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 R-SRB = 3.000
 SRBPOB = .300 RVVL = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 77/ 0 RVVL = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	.00280	-.14746	-.00395	.07641	.00306	.00032	.23394
4.500	-9.000	.00296	-.13657	-.00369	.07777	.00450	.00047	.22930
4.500	-8.000	.00315	-.12591	-.00360	.07735	.00401	.00040	.22407
4.500	-7.000	.00324	-.11480	-.00396	.07607	.00392	.00037	.21796
4.500	-6.000	.00336	-.10367	-.00435	.07466	.00399	.00022	.21217
4.500	-5.000	.00336	-.09337	-.00483	.07354	.00397	.00022	.20824
4.500	-4.000	.00336	-.08395	-.00493	.07239	.00388	.00025	.20019
4.500	-3.000	.00367	-.07567	-.00446	.07143	.00345	.00017	.19373
4.500	-2.000	.00375	-.06791	-.00400	.07125	.00285	.00009	.18847
4.500	-1.000	.00379	-.06027	-.00329	.07127	.00205	.00010	.18324
4.500	.000	.00329	-.05319	-.00257	.07074	.00148	.00006	.17913
4.500	1.000	.00303	-.04643	-.00177	.07100	.00072	.00007	.17606
4.500	2.000	.00314	-.04024	-.00088	.07080	.00001	.00002	.17362
4.500	3.000	.00305	-.03420	-.00002	.06990	-.00041	-.00016	.17134
4.500	4.000	.00321	-.02835	.00068	.06972	-.00102	-.00023	.16921
4.500	5.000	.00360	-.02263	.00172	.06979	-.00183	-.00026	.16684
4.500	6.000	.00447	-.01766	.00280	.06929	-.00240	-.00033	.16374
4.500	7.000	.00594	-.01294	.00315	.06836	-.00324	-.00027	.16070
4.500	8.000	.00765	-.00800	.00412	.06670	-.00334	-.00013	.15790
4.500	9.000	.00754	-.00225	.00477	.06722	-.00302	-.00012	.15502
4.500	10.000	.00746	.00393	.00316	.06495	-.00203	.00002	.15234
4.500	GRADIENT	-.00003	.00699	.00070	-.00032	-.00061	-.00005	-.00396

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AEDC VA-422(1A-37), CRU/ET WRIGHT SRB

(87L0263) (16 APR 74)

REFERENCE DATA

SRP = 2690.0000 94. FT.
LREF = 1290.3000 IN.
SRP = 1290.3000 IN.
SCALE = .0100

L-SRB = .000 R-SRB = 3.000
SRP06 = .300 RV/L = 1.760
PT-JET = .000 ALPHA = .000

PARAMETRIC DATA

RUN NO. 76/ 0 RV/L = 1.87 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	ALPHA	ON	QJ	CY	CIN	PCL	MTL
4.500	-10.000	-.13477	-.06293	-.00360	.16031	.00703	.03484	.19616
4.500	-9.000	-.12763	-.06239	-.00302	.14991	.00892	.03111	.19474
4.500	-8.000	-.12036	-.06191	-.00439	.13994	.00393	.02734	.19161
4.500	-7.000	-.11469	-.06069	-.00434	.13004	.00360	.02379	.18891
4.500	-6.000	-.10868	-.05953	-.00420	.12028	.00333	.02034	.18569
4.500	-5.000	-.10321	-.05834	-.00417	.11063	.00311	.01662	.18302
4.500	-4.000	-.10067	-.05749	-.00419	.10130	.00498	.01280	.18021
4.500	-3.000	-.09640	-.05720	-.00391	.09290	.00462	.00922	.17614
4.500	-2.000	-.09236	-.05718	-.00341	.08330	.00370	.00583	.17793
4.500	-1.000	-.08929	-.05712	-.00284	.07620	.00291	.00230	.17277
4.500	.000	-.08643	-.05669	-.00233	.07082	.00211	-.00116	.17724
4.500	1.000	-.08349	-.05682	-.00164	.06365	.00142	-.00439	.17943
4.500	2.000	-.08130	-.05662	-.00114	.05710	.00046	-.00614	.18121
4.500	3.000	-.08017	-.05610	-.00067	.05047	-.00027	-.01173	.18296
4.500	4.000	-.07919	-.05606	-.00007	.04401	-.00103	-.01469	.18474
4.500	5.000	-.07969	-.05539	.00023	.03809	-.00188	-.01817	.18703
4.500	6.000	-.08082	-.05542	.00066	.03146	-.00238	-.02136	.18931
4.500	7.000	-.08119	-.05477	.00106	.02546	-.00320	-.02486	.19183
4.500	8.000	-.08113	-.05346	.00096	.01900	-.00331	-.02863	.19411
4.500	9.000	-.08123	-.05134	.00023	.01396	-.00424	-.03223	.19667
4.500	10.000	-.08236	-.04901	-.00072	.00734	-.00438	-.03639	.19851
	GRADIENT	.00264	.00024	.00049	-.00719	-.00074	-.00347	.00031

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ALDC VA-422(1A-57), ORB/ET WRIGHT SRB

(STL027) 16 APR 74

REFERENCE DATA

REF = 2890.0000 SQ. FT. XGRP = 1187.0000 IN. XS
 LREF = 1290.3000 IN. YGRP = .0000 IN. YS
 BREF = 1290.3000 IN. ZGRP = 443.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = .000 2-SRB = 3.000
 S4SRB = .950 RV/L = 1.780
 PT-JET = 730.000 BETA = .000

RUN NO. 80/ 0 RV/L = 1.87 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	CLH	CV	CYN	PCL	MTL
4.500	-10.000	-.00282	-.53604	-.03172	.29879	.01973	.00102	.21043
4.500	-9.000	-.00404	-.52988	-.03204	.29741	.02024	.00393	.20767
4.500	-8.000	-.00610	-.52774	-.03233	.29604	.02097	.00703	.20424
4.500	-7.000	-.00829	-.52774	-.03259	.29431	.02160	.01043	.20213
4.500	-6.000	-.01077	-.51087	-.03281	.29493	.02203	.01319	.19949
4.500	-5.000	-.01413	-.50427	-.03328	.29485	.02229	.01617	.19731
4.500	-4.000	-.01786	-.50037	-.03340	.29334	.02184	-.02478	.19182
4.500	-3.000	-.02219	-.49553	-.03301	.29554	.02150	-.03034	.18540
4.500	-2.000	-.02682	-.49324	-.03220	.29982	.02099	-.01209	.18138
4.500	-1.000	-.03111	-.48878	-.03123	.30163	.02021	-.01566	.17725
4.500	.000	-.03457	-.48461	-.03011	.30485	.01927	-.01990	.17342
4.500	1.000	-.03722	-.48083	-.02878	.30906	.01830	-.02158	.17055
4.500	2.000	-.03829	-.47768	-.02739	.31168	.01700	-.02376	.16927
4.500	3.000	-.03879	-.47527	-.02577	.31496	.01594	-.02531	.16759
4.500	4.000	-.03930	-.47303	-.02403	.31774	.01487	-.02579	.16620
4.500	5.000	-.03966	-.46993	-.02243	.32022	.01396	-.02428	.16468
4.500	6.000	-.03924	-.46714	-.02083	.32224	.01309	-.02284	.16283
4.500	7.000	-.03843	-.46366	-.01954	.32353	.01264	-.02148	.16000
4.500	8.000	-.03682	-.46010	-.01811	.32415	.01270	-.02087	.15733
4.500	9.000	-.03522	-.45699	-.01644	.32362	.01320	-.02180	.14840
4.500	10.000	-.04120	-.45379	-.01473	.32383	.01376	-.02273	.14548
	GRADIENT	-.00266	.00350	.00114	.00276	-.00087	-.00252	-.07321

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AEDC VA-422(1A-57), CR/ET W/100T 280

(18 JUL 68) (18 APR 74)

REFERENCE DATA

REF = 2000.0000 80. FT. 10000 IN. 10
 LREF = 1250.0000 IN. 10000 IN. 10
 BREF = 1250.0000 IN. 10000 IN. 10
 SCALE = .0100

PARAMETRIC DATA

L-SPR = .000 R-SPR = 3.000
 SPRPOL = .500 RM/L = 1.760
 PT-JET = 750.000 ALPHA = .000

RUN NO. 70 0 RM/L = 1.87 GRADIENT INTERVAL = -9.00/ 5.00

MAOH	BETA	ALPHA	ON	CLM	CY	CTM	POL	MFL
4.500	-10.000	-1.1339	-4726L	-0.0266	.37703	.01933	.02708	.18763
4.500	-9.000	-1.14961	-47234	-0.02658	.36629	.01932	.02269	.18252
4.500	-8.000	-1.14747	-47343	-0.02769	.35972	.02012	.01737	.17527
4.500	-7.000	-1.14564	-47380	-0.02842	.35209	.02047	.01233	.17675
4.500	-6.000	-1.14330	-47400	-0.02900	.34441	.02096	.00791	.17496
4.500	-5.000	-1.14204	-47476	-0.02968	.33727	.02068	.00361	.17233
4.500	-4.000	-1.14038	-47553	-0.03038	.33006	.02038	-.00102	.17117
4.500	-3.000	-1.13980	-47737	-0.03069	.32344	.02038	-.00475	.17103
4.500	-2.000	-1.13868	-48704	-0.03111	.31612	.02049	-.00867	.17267
4.500	-1.000	-1.14000	-48330	-0.03067	.30866	.02033	-.01302	.17190
4.500	.070	-1.14175	-48105	-0.03045	.30257	.01999	-.01742	.17263
4.500	1.000	-1.14349	-48574	-0.03024	.29615	.01963	-.02206	.17491
4.500	2.000	-1.14560	-48486	-0.03011	.29160	.01969	-.02682	.17689
4.500	3.000	-1.14888	-48310	-0.03121	.28773	.01915	-.03192	.17979
4.500	4.000	-1.15168	-48383	-0.03125	.28433	.01717	-.03634	.18114
4.500	5.000	-1.15711	-48633	-0.03068	.27807	.01839	-.04096	.18374
4.500	6.000	-1.16234	-48804	-0.02993	.27239	.01598	-.04531	.18579
4.500	7.000	-1.16568	-48893	-0.02965	.26693	.01410	-.04936	.18903
4.500	8.000	-1.16796	-49036	-0.02876	.26138	.01275	-.05378	.19082
4.500	9.000	-1.17063	-49409	-0.02721	.25540	.01133	-.05896	.19392
4.500	10.000	-1.17300	-49830	-0.02521	.24932	.01091	-.06462	.19833
4.500	GRADIENT	-.00153	-.00110	-.00007	-.00586	-.00041	-.00447	.00120

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR.

DATE 29 OCT 74

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AZDC VA-422(1A-57): 378/ET W/RIGHT 878

(1871025) (18 APR 74)

REFERENCE DATA

W187 = 2490.0000 SQ. FT. 348P = 1187.0000 IN. X5
 W187 = 1290.3000 IN. Y18P = .0000 IN. Y5
 W187 = 1290.3000 IN. Z18P = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-978 = .000 R-978 = 1.000
 S78708 = .300 PAVL = 1.790
 PT-JET = 1900.000 BETA = .000

RUN NO. 81/ 0 PAVL = 1.87 GRADIENT INTERVAL = -3.00/ 3.00

MAOH	ALPHA	BETA	CH	CLN	CY	CYN	PCL	MTL
4.500	-10.000	-.02296	-.9898	-.04840	.54995	.02803	-.01296	.20882
4.500	-9.000	-.02672	-.98803	-.04848	.54810	.02844	-.01609	.20815
4.500	-8.000	-.03066	-.98178	-.04824	.54538	.02879	-.01896	.20888
4.500	-7.000	-.03368	-.97780	-.04792	.54519	.02891	-.02114	.19818
4.500	-6.000	-.03597	-.97289	-.04755	.54457	.02922	-.02283	.19398
4.500	-5.000	-.03647	-.96884	-.04723	.54436	.02937	-.02331	.19033
4.500	-4.000	-.03772	-.96444	-.04688	.54390	.02963	-.02407	.18981
4.500	-3.000	-.03673	-.95983	-.04677	.54413	.02980	-.02397	.19136
4.500	-2.000	-.03590	-.95407	-.04662	.54587	.02942	-.02347	.17796
4.500	-1.000	-.03468	-.92789	-.04634	.54910	.02943	-.02291	.17434
4.500	.000	-.02903	-.92291	-.04587	.55279	.02752	-.02186	.16934
4.500	1.000	-.02323	-.91901	-.04538	.55548	.02544	-.02203	.16481
4.500	2.000	-.01798	-.91638	-.04463	.55996	.02412	-.02313	.16254
4.500	3.000	-.01624	-.91440	-.04322	.56294	.02296	-.02330	.15137
4.500	4.000	-.01873	-.91061	-.04173	.56593	.02199	-.02310	.14817
4.500	5.000	-.02479	-.90721	-.04010	.56840	.02127	-.03079	.14118
4.500	6.000	-.03129	-.90436	-.03841	.57060	.02083	-.03391	.13985
4.500	7.000	-.03577	-.90183	-.03669	.57313	.02033	-.03609	.13593
4.500	8.000	-.03700	-.89939	-.03496	.57618	.01996	-.03708	.13363
4.500	9.000	-.04191	-.89703	-.03328	.57888	.02002	-.03791	.13067
4.500	10.000	-.04781	-.89340	-.03191	.58024	.02038	-.03880	.14814
	GRADIENT	.00221	.00122	.00083	.00273	-.00096	-.00090	-.00009



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18710000 (18 APR 74)

AEDC VA-422(1A-57), ORB/ET WRIGHT 888

REFERENCE DATA

REF = 2880.0000 50. FT. XMRP = 1167.0000 IN. X8
 LREF = 1290.3000 IN. YMRP = .0000 IN. Y8
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-300 = .000 R-300 = 3.000
 SFCPOB = .300 RVL = 1.760
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 02/ 0 RVL = 1.87 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	BETA	ALPHA	ON	CLN	CY	CTN	PCL	MTL
4.500	-10.000	-1.6789	-.90893	-.04333	.03412	.03325	.01208	.16471
4.500	-9.000	-1.6139	-.90919	-.04384	.03671	.03341	.00889	.16217
4.500	-8.000	-1.5532	-.90939	-.04624	.03976	.03321	.00373	.16108
4.500	-7.000	-1.5039	-.90992	-.04877	.03332	.03282	.00253	.16092
4.500	-6.000	-1.4548	-.91160	-.04692	.03629	.03202	-.00039	.16082
4.500	-5.000	-1.4081	-.91343	-.04661	.03309	.03102	-.00406	.16079
4.500	-4.000	-1.4428	-.91967	-.04567	.03008	.03012	-.00781	.16063
4.500	-3.000	-1.4398	-.91789	-.04681	.03693	.02926	-.01110	.16049
4.500	-2.000	-1.4393	-.92036	-.04632	.03796	.02884	-.01536	.16193
4.500	-1.000	-1.4529	-.92191	-.04630	.03233	.02833	-.01933	.16419
4.500	.000	-1.5079	-.92338	-.04356	.03008	.02767	-.02434	.17031
4.500	1.000	-1.5729	-.92489	-.04601	.03330	.02726	-.02939	.17219
4.500	2.000	-1.6235	-.92654	-.04397	.03907	.02682	-.03436	.19432
4.500	3.000	-1.6200	-.92797	-.04397	.03998	.02579	-.03897	.19824
4.500	4.000	-1.6010	-.92962	-.04628	.03297	.02480	-.04338	.19417
4.500	5.000	-1.5274	-.93095	-.04613	.03008	.02407	-.04779	.19372
4.500	6.000	-1.4576	-.93193	-.04592	.02639	.02239	-.05476	.19730
4.500	7.000	-1.3806	-.93312	-.04341	.02403	.02092	-.06382	.19971
4.500	8.000	-1.3332	-.93416	-.04483	.02204	.01938	-.07199	.20390
4.500	9.000	-1.3196	-.93571	-.04393	.01879	.01834	-.07948	.20406
4.500	10.000	-.12969	-.93760	-.04277	.01242	.01839	-.08426	.20561
	GRADIENT	-.00179	-.00172	.00007	-.00444	-.00063	-.00447	.00410

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 29 OCT 74

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AEDC VA-422(1A-57), CRB/ET W/BOOTH SRB

(15TLOS1) (16 APR 74)

REFERENCE DATA

SRP = 2490.0000 SQ.FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
 SRBPOS = 1.100 RW/L = 1.010
 PT-JET = 1900.000 BETA = .000

RUN NO. 15/ 0 RW/L = 1.08 GRADIENT INTERVAL = -.5.00/ 5.00

MAOI	ALPHA	BETA	ON	CLM	CY	CTH	PCL	MTL
4.500	-10.000	.02728	-1.58110	-.09521	.67927	.02219	1518.20000	.91220
4.500	-9.000	.02508	-1.55520	-.05745	.67931	.02245	1518.00000	.91236
4.500	-8.000	.03133	-1.55160	-.05592	.67874	.02290	1518.10001	.91225
4.500	-7.000	.03762	-1.54820	-.09494	.67720	.02264	1518.20000	.91144
4.500	-6.000	.04169	-1.54290	-.05323	.67512	.02266	1517.89999	.91130
4.500	-5.000	.03968	-1.53990	-.05234	.67331	.02246	1518.10001	.91138
4.500	-4.000	.02895	-1.54360	-.03279	.67390	.02235	1518.00000	.91463
4.500	-3.000	.02103	-1.54520	-.03126	.67267	.02143	1519.50000	.91349
4.500	-2.000	.01828	-1.54030	-.04993	.67136	.02037	1519.60001	.91137
4.500	-1.000	.01562	-1.53360	-.04903	.66989	.01987	1519.10001	.91066
4.500	1.000	.01410	-1.52890	-.04854	.66880	.01996	1518.20000	.91202
4.500	2.000	.01274	-1.52530	-.04797	.66865	.02016	1518.39999	.91193
4.500	3.000	.01122	-1.52170	-.04786	.66771	.02026	1518.30000	.91182
4.500	4.000	.00768	-1.51830	-.04833	.66763	.02107	1518.50000	.91321
4.500	5.000	.00539	-1.51460	-.04804	.66823	.02213	1518.50000	.91204
4.500	6.000	.00446	-1.51160	-.04748	.66841	.02236	1518.60001	.91316
4.500	7.000	.00371	-1.50790	-.04706	.67080	.02243	1518.60000	.91282
4.500	8.000	.00297	-1.50430	-.04702	.67194	.02283	1518.60000	.91370
4.500	9.000	.00291	-1.50160	-.04686	.67353	.02323	1519.10001	.91270
4.500	10.000	.00295	-1.49710	-.04631	.67373	.02334	1519.10001	.91203
4.500	GRADIENT	-.00269	.00349	.00033	-.00061	-.00002	-.04545	-.00001

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(STL032) (16 APR 74)

REFERENCE DATA

SRF = 2000.0000 SQ.FT. XMRP = 1167.0000 IN. XS
URF = 1290.3000 IN. YMRP = .0000 IN. YS
BRF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
SRBPOS = 1.100 RVL = 1.400
PT-JET = 1500.000 BETA = .000

RUN NO. 14/ 0 RVL = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CTN	PCL	MTL
4.500	-10.000	.01663	-1.14030	-.04509	.63266	.01743	1524.89999	.91674
4.500	-9.000	.01874	-1.13820	-.04563	.63351	.01820	1524.39999	.91419
4.500	-8.000	.02313	-1.13610	-.04672	.63522	.01921	1524.20000	.91400
4.500	-7.000	.02238	-1.13680	-.04731	.63667	.01967	1524.20000	.91492
4.500	-6.000	.01917	-1.13770	-.04646	.63536	.01918	1524.20000	.91427
4.500	-5.000	.01208	-1.13320	-.04485	.63413	.01850	1524.10001	.91528
4.500	-4.000	.02340	-1.12880	-.04309	.63266	.01813	1524.30000	.91590
4.500	-3.000	.01942	-1.12430	-.04184	.63199	.01735	1524.00000	.91613
4.500	-2.000	.01964	-1.11990	-.04091	.63032	.01636	1524.10001	.91532
4.500	-1.000	.01848	-1.11290	-.03926	.62916	.01591	1523.89999	.91527
4.500	.000	.01883	-1.11150	-.03916	.62904	.01517	1524.39999	.91768
4.500	1.000	.01745	-1.10640	-.03905	.62831	.01483	1523.30000	.91634
4.500	2.000	.01560	-1.10550	-.03947	.62905	.01430	1523.60001	.91567
4.500	3.000	.01593	-1.09990	-.03905	.63011	.01434	1523.50000	.91693
4.500	4.000	.01697	-1.09570	-.03901	.62974	.01469	1523.00000	.91319
4.500	5.000	.01993	-1.09120	-.03835	.62970	.01538	1524.20000	.91483
4.500	6.000	.01990	-1.08780	-.03908	.62955	.01573	1523.89999	.91393
4.500	7.000	.01840	-1.08280	-.03709	.62996	.01571	1524.00000	.91599
4.500	8.000	.01865	-1.07830	-.03637	.63096	.01585	1523.70000	.91599
4.500	9.000	.01944	-1.07340	-.03552	.63204	.01603	1524.00000	.91503
4.500	10.000	.02010	-1.07070	-.03477	.63270	.01614	1523.70000	.91448
GRADIENT		.00002	.00408	.00055	-.00039	-.00040	.11051	-.00007

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AEDC VA-422(1A-57), CRB/ET W/BOOM 828

(STL000) (18 APR 74)

REFERENCE DATA

8REF = 2890.0000 39. FT.
 1REF = 1250.3000 IN.
 2REF = 1250.3000 IN.
 SCALE = .0100

PARAMETRIC DATA

L-828 = 1.000 R-328 = 1.000
 SRBPOS = 1.100 RV/L = 1.400
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 13/ 0 RV/L = 1.50 GRADIENT INTERVAL = -.5.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.55537	-1.10270	-.03366	.63730	.01445	1518.50000	.90912
4.500	-9.000	-.55969	-1.10270	-.03354	.63390	.01591	1518.30000	.91023
4.500	-8.000	-.57121	-1.10350	-.03444	.63200	.01631	1518.50000	.90990
4.500	-7.000	-.58490	-1.10300	-.03496	.63062	.01624	1518.39999	.91028
4.500	-6.000	-.59376	-1.10450	-.03563	.62931	.01599	1518.39999	.91078
4.500	-5.000	-.59471	-1.10710	-.03653	.62997	.01573	1518.00000	.90949
4.500	-4.000	-.59147	-1.10600	-.03754	.62975	.01536	1518.30000	.91116
4.500	-3.000	-.58217	-1.11120	-.03818	.62937	.01537	1518.50000	.90999
4.500	-2.000	-.55045	-1.11280	-.03871	.62867	.01531	1518.39999	.90788
4.500	-1.000	-.53795	-1.11300	-.03970	.62721	.01549	1517.90000	.90783
4.500	1.000	-.53443	-1.11310	-.04062	.62639	.01603	1517.00000	.90919
4.500	1.000	-.53287	-1.11440	-.04190	.62543	.01640	1516.50000	.90869
4.500	2.000	-.52666	-1.11500	-.04266	.62400	.01674	1516.70000	.90632
4.500	3.000	-.51931	-1.11590	-.04334	.62173	.01719	1517.00000	.91047
4.500	4.000	-.50602	-1.11700	-.04366	.62005	.01769	1516.70000	.91006
4.500	5.000	-.49595	-1.11930	-.04401	.61761	.01849	1517.30000	.91117
4.500	6.000	-.47626	-1.12130	-.04371	.61446	.01889	1517.10001	.91018
4.500	7.000	-.47239	-1.12290	-.04250	.61095	.01857	1516.89999	.90975
4.500	8.000	-.46431	-1.12690	-.03993	.60507	.01821	1517.10001	.90917
4.500	9.000	-.47696	-1.12970	-.03932	.60032	.01929	1517.20000	.91169
4.500	10.000	-.45990	-1.13250	-.03924	.59659	.01966	1517.20000	.90931
4.500	GRADIENT	.01002	-.00703	-.00060	-.00122	.00029	-.17091	.00010

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AEDC VA-422(11A-37), CRB/ET W/BOTH SRS

(STL054) (15 APR 74)

REFERENCE DATA

GRIP = 1800.0000 80. FT. 10000 = 1107.0000 IN. X8
LGRIP = 1800.0000 IN. 10000 = .0000 IN. Y8
RGRIP = 1800.0000 IN. 20000 = 400.0000 IN. Z8
SCALE = .0100

PARAMETRIC DATA

L-GRIP = 1.000 R-GRIP = 1.000
S-GRIP = 1.100 R-GRIP = 1.700
T-GRIP = .000 BETA = .000

RUN NO. 3/ 0 R-GRIP = 1.05 GRADIENT INTERVAL = -3.00/ 3.00

MAOI	ALPHA	BETA	ON	CLM	CV	CTM	PC	MFL
4.500	-10.000	.00815	-.07495	-.01032	.02840	.00602	-.86194	.00000
4.500	-9.000	.00800	-.06794	-.00995	.02398	.00514	-.86213	.00000
4.500	-8.000	.00572	-.06120	-.00747	.02050	.00471	-.87237	.00000
4.500	-7.000	.00596	-.05421	-.00616	.01741	.00412	-.89354	.00000
4.500	-6.000	.00384	-.04724	-.00502	.01432	.00347	-.87685	.00000
4.500	-5.000	.00323	-.04043	-.00398	.01008	.00332	-.88742	.00000
4.500	-4.000	.00461	-.03385	-.00288	.00565	.00370	-.86970	.00000
4.500	-3.000	.00421	-.02762	-.00176	.00356	.00444	-.87993	.00000
4.500	-2.000	.00411	-.02214	-.00072	.00394	.00534	-.84869	.00000
4.500	-1.000	.00430	-.01680	.00043	.00609	.00699	-.95411	.00000
4.500	.000	.00449	-.01248	.00179	.01072	.00760	-.91094	.00000
4.500	1.000	.00452	-.00963	.00324	.01154	.00833	-.90474	.00000
4.500	2.000	.00476	-.00516	.00426	.01048	.00851	-.93113	.00000
4.500	3.000	.00496	-.00043	.00503	.00987	.00846	-.89418	.00000
4.500	4.000	.00511	.00451	.00604	.00986	.00767	-.89485	.00000
4.500	5.000	.00514	.00364	.00721	.00223	.00726	-.93032	.00000
4.500	6.000	.00547	.01381	.00831	.00129	.00719	-.97045	.00000
4.500	7.000	.00527	.02269	.00923	.00468	.00693	-.85399	.00000
4.500	8.000	.00471	.02941	.01042	.00761	.00709	.86289	.00000
4.500	9.000	.00463	.03736	.01125	.01121	.00718	-.96441	.00000
4.500	10.000	.00443	.04475	.01257	.01360	.00767	-.99490	.00000
	GRADIENT	.00005	.00480	.00113	-.00139	.00031	-.00442	.00000

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AEDC VA-422(1A-87), CRG/ET W/BOTH SRS

(87L039) (16 APR 74)

REFERENCE DATA

SREP = 2000.0000 82.FT. 10RRP = 1167.0000 IN. X5
 LREP = 1250.3000 IN. 11RRP = .0000 IN. Y5
 BREP = 1250.3000 IN. 20RRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 1.000 R-SRS = 1.000
 SRSPOS = 1.100 R/VL = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO. 0 0 R/VL = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	ON	CLM	CY	CTN	PCL	MTL
4.500	-10.000	-.14134	-.00105	-.00421	.00696	.00663	-.90600	.00000
4.500	-9.000	-.13336	-.00139	-.00436	.00693	.00699	-.91261	.00000
4.500	-8.000	-.12967	-.00212	-.00422	.00623	.00631	-.93933	.00000
4.500	-7.000	-.12394	-.00332	-.00397	.00501	.00661	-.93934	.00000
4.500	-6.000	-.11868	-.00467	-.00361	.00368	.00657	-.84374	.00000
4.500	-5.000	-.11464	-.00614	-.00317	.00260	.00631	-.86174	.00000
4.500	-4.000	-.11161	-.00772	-.00290	.00091	.00688	-.91355	.00000
4.500	-3.000	-.10753	-.00929	-.00160	-.00172	.00664	-.84374	.00000
4.500	-2.000	-.10312	-.01131	-.00094	-.00409	.00676	-.88724	.00000
4.500	-1.000	-.09939	-.01376	-.00014	-.00717	.00703	-.87634	.00000
4.500	.000	-.09651	-.01628	.00098	-.00962	.00709	-.86163	.00000
4.500	1.000	-.09304	-.01866	.00175	-.01195	.00713	-.85985	.00000
4.500	2.000	-.08985	-.02068	.00235	-.01378	.00702	-.84374	.00000
4.500	3.000	-.08648	-.02334	.00324	-.01650	.00708	-.90420	.00000
4.500	4.000	-.08691	-.02577	.00415	-.01931	.00721	-.87139	.00000
4.500	5.000	-.08905	-.02846	.00563	-.02237	.00745	-.84374	.00000
4.500	6.000	-.08794	-.03153	.00692	-.02441	.00731	-.84374	.00000
4.500	7.000	-.08372	-.03436	.00619	-.02688	.00736	-.87096	.00000
4.500	8.000	-.08259	-.03734	.00527	-.02873	.00735	-.91077	.00000
4.500	9.000	-.08276	-.03993	.00117	-.03074	.00747	-.85499	.00000
4.500	10.000	-.08321	-.04292	.00129	-.03336	.00795	-.84374	.00000
4.500	GRADIENT	.00304	-.00227	.00065	-.00249	.00006	.00256	.00000

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AEDC VA-422(1A-57), ORBIT W/BOIM 270

(STL030) (18 APR 74)

REFERENCE DATA

8007 = 2000.0000 IN. FT. 300P = 1167.0000 IN. XS
 1007 = 1250.0000 IN. 400P = .0000 IN. YS
 2007 = 1250.0000 IN. 500P = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-808 = 1.000 R-808 = 1.000
 SROPOS = 1.100 RAVL = 1.760
 PT-JET = 750.000 BETA = .000

RUN NO. 10/ 0 RAVL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	WTL
4.500	-10.000	.01011	-.50015	-.02675	.25927	.01205	755.97000	.45205
4.500	-9.000	.00920	-.49610	-.02574	.25721	.01157	755.76000	.45183
4.500	-8.000	.00706	-.49128	-.02498	.25709	.01110	756.01000	.45161
4.500	-7.000	.00696	-.48639	-.02439	.25591	.01053	755.96000	.45175
4.500	-6.000	.00653	-.48057	-.02336	.25541	.01047	756.30000	.45095
4.500	-5.000	.00522	-.47501	-.02276	.25427	.01019	756.16000	.45141
4.500	-4.000	-.00226	-.47072	-.02222	.25395	.01071	756.16000	.45205
4.500	-3.000	-.00270	-.46760	-.02164	.25287	.01091	756.0.000	.45099
4.500	-2.000	-.00544	-.46307	-.02026	.25177	.01090	756.21000	.45129
4.500	-1.000	-.00755	-.45900	-.01925	.25122	.01075	755.95000	.45144
4.500	.000	-.00940	-.45584	-.01849	.25055	.01050	755.91000	.45162
4.500	1.000	-.00854	-.45245	-.01770	.25091	.01008	755.97000	.45167
4.500	2.000	-.00900	-.44860	-.01694	.25106	.00932	755.97000	.45144
4.500	3.000	-.01011	-.44440	-.01644	.25317	.00868	756.36000	.45146
4.500	4.000	-.01226	-.43900	-.01617	.25364	.00815	756.22000	.45108
4.500	5.000	-.01109	-.43575	-.01575	.25391	.00803	756.13000	.45136
4.500	6.000	-.00604	-.42864	-.01526	.25424	.00828	756.24000	.45110
4.500	7.000	-.00154	-.42450	-.01471	.25702	.00963	755.92000	.45191
4.500	8.000	-.00344	-.42095	-.01370	.26467	.01320	755.90000	.45161
4.500	9.000	.00223	-.41575	-.01271	.26935	.01347	755.84000	.45096
4.500	10.000	.00681	-.40916	-.01155	.26930	.01268	755.86000	.45160
		-.00115	.00596	.00075	-.00001	-.00029	.00336	-.00002

GRADIENT

AEDC VA-422(1A-57), CRB/ET W/BOTH 888

(STL037) (18 APR 74)

REFERENCE DATA

BRP = 2000.0000 SQ.FT. XPRP = 1167.0000 IN. X5
 LREF = 1290.3000 IN. YPRP = .0000 IN. Y5
 BRP = 1290.3000 IN. ZPRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
 SRBPOS = 1.100 RV/L = 1.760
 PT-JET = 750.000 ALPHA = .000

RUN NO. 7/ 0 RV/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MAON	BETA	ALPHA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.37585	-.44685	-.01696	.25639	.00355	750.74000	.45817
4.500	-9.000	-.38062	-.44817	-.01689	.25522	.00375	750.69000	.45539
4.500	-8.000	-.38460	-.44836	-.01662	.25316	.00422	750.49000	.45440
4.500	-7.000	-.38761	-.44853	-.01646	.25190	.00493	750.11000	.45426
4.500	-6.000	-.38859	-.44956	-.01648	.25235	.00768	749.34000	.45359
4.500	-5.000	-.38362	-.44969	-.01911	.25363	.00643	748.96000	.45394
4.500	-4.000	-.37729	-.45018	-.01967	.25419	.00884	748.89000	.45403
4.500	-3.000	-.37493	-.45075	-.02007	.25362	.00926	748.59000	.45303
4.500	-2.000	-.37038	-.45266	-.02024	.25256	.00997	748.47000	.45385
4.500	-1.000	-.36136	-.45483	-.01953	.24990	.01076	748.42000	.45337
4.500	.000	-.35213	-.45643	-.01827	.24699	.01114	748.16000	.45309
4.500	1.000	-.35226	-.45869	-.01691	.24369	.01116	747.72000	.45317
4.500	2.000	-.35347	-.46232	-.01594	.24103	.01134	747.64000	.45366
4.500	3.000	-.34327	-.46592	-.01536	.23939	.01166	747.43000	.45419
4.500	4.000	-.33580	-.46837	-.01437	.23676	.01199	747.62000	.45337
4.500	5.000	-.32744	-.47135	-.01374	.23484	.01176	747.18000	.45431
4.500	6.000	-.31322	-.47222	-.01300	.23171	.01273	747.23000	.45400
4.500	7.000	-.29776	-.47226	-.01280	.22905	.01317	746.93000	.45324
4.500	8.000	-.29637	-.47411	-.01207	.22662	.01374	747.04000	.45319
4.500	9.000	-.29823	-.47753	-.01106	.22380	.01425	746.96000	.45392
4.500	10.000	-.29638	-.48020	-.01025	.22122	.01436	746.96000	.45434
GRADIENT		.00332	-.00227	.00067	-.00214	.00035	-.17855	.00002

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ADDC VA-422(1A-57), ORBIT W/BOOTH 576

REFERENCE DATA

SRP = 2490.0000 SQ.FT. YARP = 1167.0000 IN. XS
 LRP = 1290.3000 IN. YARP = .0000 IN. YS
 SRP = 1290.3000 IN. ZARP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-908 = 1.000 R-908 = 1.000
 SRP08 = 1.100 RV/L = 1.760
 PT-JET = 1900.000 BETA = .000

RUN NO. 9/ 0 RV/L = 1.66 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	BETA	ON	QJN	CT	CIN	PCL	MTL
4.500	-10.000	-.00249	-.93273	-.04026	.50664	.01643	1524.69999	.93630
4.500	-9.000	-.00006	-.92625	-.04034	.50667	.01750	1525.10001	.93633
4.500	-8.000	.00169	-.92463	-.04023	.51034	.01732	1524.00000	.93643
4.500	-7.000	.00332	-.92026	-.03949	.51069	.01663	1524.50000	.93693
4.500	-6.000	.00333	-.91656	-.03791	.50834	.01596	1524.10001	.93316
4.500	-5.000	-.00022	-.91121	-.03537	.50469	.01433	1523.60000	.93761
4.500	-4.000	-.00424	-.90633	-.03449	.50427	.01427	1524.30000	.93641
4.500	-3.000	-.00315	-.90474	-.03421	.50437	.01413	1524.70000	.93660
4.500	-2.000	.00185	-.89963	-.03391	.50423	.01362	1524.30000	.93323
4.500	-1.000	.02062	-.89366	-.03366	.50431	.01330	1523.30000	.93760
4.500	.000	.01590	-.89194	-.03343	.50339	.01296	1523.50000	.93602
4.500	1.000	.01017	-.88866	-.03345	.50468	.01268	1524.39999	.93650
4.500	2.000	.00534	-.88463	-.03364	.50333	.01263	1523.10001	.93776
4.500	3.000	.00209	-.86101	-.03361	.50604	.01239	1524.69999	.93743
4.500	4.000	.00413	-.87736	-.03323	.50560	.01234	1523.00000	.93696
4.500	5.000	.01039	-.87376	-.03269	.50306	.01269	1524.39999	.93396
4.500	6.000	.01637	-.86893	-.03200	.50486	.01270	1523.69999	.93313
4.500	7.000	.01904	-.86463	-.03136	.50396	.01241	1523.30000	.93391
4.500	8.000	.02123	-.85979	-.03074	.50613	.01216	1523.20000	.93639
4.500	9.000	.02313	-.85310	-.02994	.50702	.01239	1522.80000	.93466
4.500	10.000	.02930	-.85043	-.02894	.50676	.01263	1522.60000	.93346
GRADIENT		.00090	.00361	.00020	.00011	-.00022	.00091	-.00016

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AEDC VA-422(1A-57), CRIB/ET W/BOOTH 818

(STUDIOS) (18 APR 74)

REFERENCE DATA

BRP = 2400.0000 82.17.
 LRP = 1200.0000 IN.
 BRP = 1200.0000 IN.
 SCALE = .0100

PARAMETRIC DATA

L-818 = 1.000 R-818 = 1.000
 818P08 = 1.100 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO.		Q/ D		RV/L = 1.87		GRADIENT INTERVAL = -5.00/ 5.00		
MACH	BETA	ALPHA	ON	CLH	CY	CYN	PCL	MPL
4.500	-10.000	-.80178	-.88885	-.02818	.57847	.01248	1516.50000	.94363
4.500	-9.000	-.80355	-.88884	-.02846	.57772	.01287	1516.70000	.94446
4.500	-8.000	-.80355	-.88806	-.02903	.57703	.01306	1517.60001	.94501
4.500	-7.000	-.80333	-.88980	-.02989	.57672	.01235	1517.89999	.94456
4.500	-6.000	-.81330	-.89193	-.03081	.57578	.01221	1517.89999	.94104
4.500	-5.000	-.81693	-.89119	-.03126	.57554	.01229	1517.20000	.94099
4.500	-4.000	-.81864	-.89204	-.03166	.57479	.01248	1516.39999	.94200
4.500	-3.000	-.81201	-.89209	-.03176	.57437	.01295	1516.39999	.94411
4.500	-2.000	-.80628	-.89363	-.03272	.57416	.01295	1517.00000	.94435
4.500	-1.000	-.59758	-.89488	-.03342	.57294	.01328	1517.30000	.94227
4.500	.000	-.54823	-.89373	-.03436	.57259	.01395	1517.50000	.94290
4.500	1.000	-.54298	-.89659	-.03536	.57108	.01421	1517.50000	.94041
4.500	2.000	-.53458	-.89827	-.03621	.57082	.01512	1517.20000	.94207
4.500	3.000	-.52380	-.89999	-.03643	.49861	.01578	1517.50000	.94291
4.500	4.000	-.51016	-.90218	-.03621	.49681	.01634	1518.00000	.94393
4.500	5.000	-.49755	-.90498	-.03669	.49564	.01665	1517.70000	.94092
4.500	6.000	-.49131	-.90640	-.03440	.48960	.01683	1517.70000	.94111
4.500	7.000	-.48869	-.90887	-.03333	.48416	.01783	1517.80000	.94188
4.500	8.000	-.48740	-.91112	-.03202	.47948	.01792	1518.00000	.94180
4.500	9.000	-.48448	-.91464	-.03136	.47671	.01723	1517.70000	.93931
4.500	10.000	-.46454	-.91894	-.03084	.47294	.01721	1517.30000	.94206
	GRADIENT	.01358	-.00131	-.00057	-.00106	.00048	.11637	-.00004



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(197L040) (10 APR 74)

AEDC VA-422(1A-577), ORB/ET W/BOOTH 280

REFERENCE DATA

SRIP = 2000.0000 SQ.FT. YARP = 1167.0000 IN. X3
LREP = 1200.3000 IN. YARP = .0000 IN. Y8
PRIP = 1200.3000 IN. ZARP = 400.0000 IN. Z8
SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
SRPOS = 1.100 RV/L = 6.750
PT-JET = .000 BETA = .000

RUN NO. 2/ 0 RV/L = 9.57 GRADIENT INTERVAL = -9.00/ 9.00

MAOI	ALPHA	BETA	ON	CLN	CY	CYN	PCL	MTL
4.500	-10.000	-.05118	-.07237	-.00953	.02767	.00921	-1.48240	.00000
4.500	-9.000	-.05124	-.06963	-.00916	.02493	.00439	-1.48240	.00000
4.500	-8.000	-.02374	-.09938	-.00690	.02176	.00372	-1.48240	.00000
4.500	-7.000	-.02095	-.02299	-.00355	.01642	.00329	-1.48240	.00000
4.500	-6.000	-.01512	-.04629	-.00447	.01442	.00269	-1.49000	.00000
4.500	-5.000	-.01076	-.03987	-.00353	.01026	.00266	-1.49750	.00000
4.500	-4.000	-.00714	-.03356	-.00266	.00546	.00236	-1.49750	.00000
4.500	-3.000	-.00129	-.02727	-.00184	.00086	.00369	-1.55120	.00000
4.500	-2.000	.00613	-.02158	-.00067	.00359	.00463	-1.49400	.00000
4.500	-1.000	.01296	-.01633	.00027	-.00776	.00373	-1.55040	.00000
4.500	.000	.01700	-.01213	.00177	-.01060	.00467	-1.61570	.00000
4.500	1.000	.01979	-.00821	.00316	-.01176	.00740	-1.56020	.00000
4.500	2.000	.02392	-.00334	.00416	-.01099	.00772	-1.52680	.00000
4.500	3.000	.03314	.00068	.00333	-.00900	.00762	-1.61600	.00000
4.500	4.000	.04105	.00527	.00449	-.00618	.00766	-1.53710	.00000
4.500	5.000	.04484	.01033	.00777	-.00232	.00710	-1.50230	.00000
4.500	6.000	.05003	.01623	.00991	.00161	.00661	-1.56490	.00000
4.500	7.000	.05554	.02211	.01032	.00659	.00623	-1.49410	.00000
4.500	8.000	.06140	.02920	.01131	.00973	.00635	-1.49750	.00000
4.500	9.000	.06576	.03729	.01198	.01260	.00661	-1.51110	.00000
4.500	10.000	.06995	.04477	.01300	.01440	.00709	-1.48750	.00000
4.500	GRADIENT	.00564	.00486	.00116	-.00144	.00056	-.00411	.00000

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

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(STL043) (16 APR 74)

REFERENCE DATA

ZREF = 2000.0000 80.FT. XREF = 1187.0000 IN. X5
 YREF = 1200.3000 IN. YREF = .0000 IN. Y5
 ZREF = 1200.3000 IN. ZREF = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
 SRB-OS = 1.100 RV/L = 0.750
 PT-JET = .000 ALPHA = .000

RUN NO. 4/ D RV/L = 0.56 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	ALPHA	ON	CLM	CV	CYN	PC	MTL
4.500	-10.500	-46387	.00011	-.00317	.00386	.00694	-1.67710	.00000
4.500	-9.000	-44393	-.00062	-.00076	.00393	.00692	-1.59410	.00000
4.500	-8.000	-43342	-.00169	-.00465	.00443	.00692	-1.66940	.00000
4.500	-7.000	-41941	-.00303	-.00421	.00350	.00671	-1.66430	.00000
4.500	-6.000	-40369	-.00447	-.00388	.00266	.00643	-1.67260	.00000
4.500	-5.000	-38227	-.00528	-.00336	.00122	.00611	-1.63690	.00000
4.500	-4.000	-38467	-.00723	-.00276	-.00066	.00602	-1.67230	.00000
4.500	-3.000	-37633	-.00919	-.00183	-.00290	.00594	-1.67890	.00000
4.500	-2.000	-36758	-.01139	-.00096	-.00317	.00592	-1.66390	.00000
4.500	-1.000	-35938	-.01373	-.00009	-.00798	.00613	-1.61490	.00000
4.500	.000	-35919	-.01592	.00054	-.00598	.00613	-1.63390	.00000
4.500	1.000	-35983	-.01790	.00113	-.01197	.00627	-1.66170	.00000
4.500	2.000	-36358	-.02024	.00196	-.01434	.00632	-1.67890	.00000
4.500	3.000	-36724	-.02222	.00232	-.01640	.00636	-1.52720	.00000
4.500	4.000	-37487	-.02442	.00320	-.01871	.00643	-1.54290	.00000
4.500	5.000	-38139	-.02701	.00462	-.02160	.00667	-1.67500	.00000
4.500	6.000	-38451	-.02956	.00575	-.02352	.00676	-1.67500	.00000
4.500	7.000	-38660	-.03229	.00700	-.02549	.00684	-1.67890	.00000
4.500	8.000	-39296	-.03484	.00812	-.02753	.00714	-1.67790	.00000
4.500	9.000	-40033	-.03753	.00924	-.02896	.00729	-1.61840	.00000
4.500	10.000	-40668	-.03973	.01019	-.03101	.00763	-1.63500	.00000
4.500	GRADIENT	.00118	-.00215	.00077	-.00226	.00003	.00691	.00000

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AEDC VA-422(1A-57), CRB/ET W/BOIM SPS

(STL042) (16 APR 74)

REFERENCE DATA

SLIP = 2000.0000 50.FT. 1000P = 1107.0000 IN. 1S
LIFT = 1250.3000 IN. 1000P = .0000 IN. 1S
BPS = 1250.3000 IN. 1000P = 400.0000 IN. 2S
SCALE = 1000

PARAMETRIC DATA

L-SUB = 2.000 R-SUB = 2.000
SPR00 = 2.200 RW/L = 1.010
PI-JET = 1500.000 BETA = .000

RUN NO. 35/ 0 RW/L = 1.07 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	BETA	GA	QJ	CT	CM	PCL	MTL
4.490	-10.000	-.00039	-1.60260	-.07696	.90845	.04900	1500.39999	.91342
4.490	-9.000	.00055	-1.99840	-.07913	.90762	.04935	1500.50000	.91323
4.490	-8.000	.00007	-1.99390	-.07901	.90966	.05017	1500.20000	.91331
4.490	-7.000	.01006	-1.98970	-.07973	.91140	.05117	1500.60001	.91308
4.490	-6.000	.01613	-1.99370	-.08006	.91257	.05230	1500.60001	.91286
4.490	-5.000	.01943	-1.97790	-.08009	.91310	.05338	1500.60001	.91337
4.490	-4.000	.02210	-1.97280	-.07993	.91382	.05407	1500.20000	.91415
4.490	-3.000	.02378	-1.96670	-.07942	.91232	.05434	1500.70000	.91510
4.490	-2.000	.02232	-1.96110	-.07867	.91148	.05459	1500.60001	.91247
4.490	-1.000	.02023	-1.95490	-.07761	.91066	.05488	1499.30000	.91240
4.490	.000	.02092	-1.94980	-.07661	.91033	.05481	1498.80000	.91433
4.490	1.000	.02019	-1.94720	-.07553	.91217	.05507	1500.00000	.91504
4.490	2.000	.01963	-1.94470	-.07388	.91457	.05510	1500.70000	.91459
4.490	3.000	.01904	-1.94190	-.07173	.91623	.05490	1500.89999	.91334
4.490	4.000	.01815	-1.94120	-.06967	.91940	.05453	1500.60001	.91526
4.490	5.000	.01853	-1.94090	-.06361	.92321	.05364	1501.10001	.91497
4.490	6.000	.02151	-1.93740	-.06302	.92382	.05228	1501.10001	.91515
4.490	7.000	.02633	-1.93410	-.06046	.92774	.05108	1501.20000	.91419
4.490	8.000	.02780	-1.92940	-.05787	.93037	.04910	1501.39999	.91493
4.490	9.000	.02931	-1.92320	-.05531	.93448	.04698	1501.60001	.91417
4.490	10.000	.02912	-1.91520	-.05338	.93816	.04484	1501.20000	.91153
GRADIENT		-.00036	.00369	.00136	.00095	.00006	.00091	.00013

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AEDC VA-422(1A-57), CRUJET W/BOTH SPS

(187043) (18 APR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XRRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YRRP = .0000 IN. YS
 BREF = 1290.3000 IN. ZRRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SFS = 2.000 R-SFS = 2.000
 SREFOS = 2.200 RWVL = 1.400
 PT-JET = 1920.000 BETA = .000

RUN NO. 34/ 0 RWVL = 1.49 GRADIENT INTERVAL = -.000/ 5.00

WACH	ALPHA	BETA	ON	CLN	CV	CTN	POL	MTL
4.500	-10.000	.02427	-1.18913	-.0641	.68015	.04779	1500.60001	.91791
4.500	-9.000	.03070	-1.18470	-.06411	.67993	.04792	1500.60001	.91750
4.500	-8.000	.03773	-1.18130	-.06375	.67969	.04808	1501.60000	.91823
4.500	-7.000	.04575	-1.17650	-.06324	.67938	.04833	1502.60000	.92061
4.500	-6.000	.04962	-1.17180	-.06358	.67944	.04854	1503.30000	.91808
4.500	-5.000	.05084	-1.16600	-.06373	.67969	.04881	1503.80000	.91963
4.500	-4.000	.04817	-1.16080	-.06287	.67934	.04768	1504.10001	.91970
4.500	-3.000	.04328	-1.15480	-.06192	.67808	.04702	1504.60001	.91743
4.500	-2.000	.03458	-1.14920	-.06099	.67711	.04614	1504.89999	.91959
4.500	-1.000	.02721	-1.14360	-.05961	.67596	.04531	1505.00000	.91928
4.500	.000	.02453	-1.13990	-.05793	.67536	.04490	1505.10001	.91993
4.500	1.000	.02222	-1.13720	-.05366	.67567	.04431	1505.60001	.92054
4.500	2.000	.02122	-1.13500	-.05268	.67653	.04368	1505.70000	.92293
4.500	3.000	.01634	-1.13240	-.04954	.67618	.04252	1506.00000	.91868
4.500	4.000	.01475	-1.12830	-.04679	.67599	.04091	1505.20000	.91777
4.500	5.000	.02036	-1.12280	-.04457	.68302	.03985	1505.20000	.91940
4.500	6.000	.02701	-1.11620	-.04297	.68290	.03690	1504.80000	.91948
4.500	7.000	.02864	-1.10930	-.04153	.68021	.03321	1504.60001	.91913
4.500	8.000	.02836	-1.10230	-.04023	.68268	.03407	1504.70000	.91793
4.500	9.000	.02812	-1.09440	-.03853	.70115	.03242	1504.80000	.92223
4.500	10.000	.02565	-1.08610	-.03645	.70062	.03038	1504.89999	.91967
	GRADIENT	-.00342	.00408	.00196	.00017	-.00063	.16162	.00004

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NEDC VA-622(1A-57), ORB/ET W/BOOTH SRB

(87L044) (18 APR 74)

REFERENCE DATA

SRP = 2890.0000 50. FT. XMRP = 1187.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0173

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRPFB = 2.200 RV/L = 1.400
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 33/ 0 RV/L = 1.40 GRADIENT INTERVAL = -.007 5.00

WACH	BETA	ALPHA	ON	CM	CY	CTN	PCL	MFL
4.500	-10.000	-.00911	-1.11300	-.03486	.69625	.03314	1492.70000	.92174
4.500	-9.000	-.00326	-1.11700	-.03744	.69625	.03452	1494.90000	.92003
4.500	-8.000	.00269	-1.11950	-.03997	.69579	.03530	1495.30000	.91994
4.500	-7.000	.01093	-1.12000	-.04208	.69579	.03568	1496.70000	.92191
4.500	-6.000	.01682	-1.12700	-.04361	.69770	.03503	1497.50000	.92220
4.500	-5.000	.00764	-1.12970	-.04505	.69771	.03293	1497.60001	.91990
4.500	-4.000	-.00415	-1.13420	-.04814	.69363	.03791	1497.70000	.91990
4.500	-3.000	-.01732	-1.13740	-.04629	.69240	.04931	1497.90000	.91996
4.500	-2.000	-.02192	-1.13950	-.04501	.68748	.04785	1498.20000	.92215
4.500	-1.000	-.02021	-1.14070	-.04603	.68001	.04991	1499.10001	.92272
4.500	.000	-.01521	-1.14300	-.03724	.67233	.04421	1499.89999	.92019
4.500	1.000	-.00433	-1.14250	-.03436	.66493	.04219	1500.35999	.92197
4.500	2.000	.01156	-1.14290	-.03183	.65710	.04002	1500.70000	.91992
4.500	3.000	.02772	-1.14200	-.04019	.64961	.03793	1500.20000	.91996
4.500	4.000	.03735	-1.14330	-.04692	.64203	.03615	1500.00000	.92007
4.500	5.000	.03732	-1.14550	-.04877	.63700	.03497	1500.10001	.91977
4.500	6.000	.03388	-1.14820	-.04936	.63106	.03432	1500.90000	.91999
4.500	7.000	.03035	-1.15050	-.04725	.62477	.03316	1500.70000	.91971
4.500	8.000	.02328	-1.15280	-.04561	.61829	.03228	1500.70000	.92003
4.500	9.000	.01770	-1.15440	-.04407	.61204	.03141	1500.70000	.92190
4.500	10.000	.01248	-1.15590	-.04306	.60746	.02995	1500.50000	.92362
4.500	GRADIENT	.00485	-.00125	.00197	-.00659	-.00184	.32000	.00003

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AEDC VA-422(1A-37) . CRD/ET W/BOTH SRB

(8TLD49) (16 APR 74)

REFERENCE DATA

SR17 = 2490.0000 SQ.FT. XMRP = 1167.0000 IN. X8
 LTRP = 1290.3000 IN. YMRP = .0000 IN. Y8
 SR17 = 1290.3000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-SRB F 2.000 R-SRB = 2.000
 SRBPCB = 2.200 RVL = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 31/ 0 RVL = 1.83 GRADIENT INTERVAL = -.5.00/ 5.00

MOCH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.00131	-.10039	-.00874	.03716	.01254	3.16220	.00000
4.500	-9.000	-.00063	-.09291	-.00810	.03672	.01145	3.17480	.00000
4.500	-8.000	.00022	-.06272	-.00770	.03596	.01052	3.13290	.00000
4.500	-7.000	.00101	-.07313	-.00750	.03536	.00961	3.13970	.00000
4.500	-6.000	.00157	-.06442	-.00697	.03532	.00849	3.15070	.00000
4.500	-5.000	.00208	-.05617	-.00647	.03539	.00782	3.15760	.00000
4.500	-4.000	.00263	-.04822	-.00617	.03483	.00721	3.14930	.00000
4.500	-3.000	.00284	-.04114	-.00575	.03346	.00716	3.14210	.00000
4.500	-2.000	.00319	-.03491	-.00506	.03239	.00726	3.17480	.00000
4.500	-1.000	.00357	-.02827	-.00446	.03236	.00715	3.13950	.00000
4.500	.000	.00391	-.02203	-.00383	.03304	.00686	3.11790	.00000
4.500	1.000	.00419	-.01595	-.00327	.03333	.00662	3.16100	.00000
4.500	2.000	.00456	-.01036	-.00272	.03402	.00644	3.09890	.00000
4.500	3.000	.00517	-.00616	-.00132	.03426	.00636	3.10340	.00000
4.500	4.000	.00618	-.00222	-.00014	.03551	.00590	3.09440	.00000
4.500	5.000	.00717	.00164	.00034	.03723	.00497	3.03150	.00000
4.500	6.000	.00849	.00671	.00150	.03961	.00441	3.07770	.00000
4.500	7.000	.01056	.01192	.00196	.04175	.00394	3.00840	.00000
4.500	8.000	.01272	.01794	.00241	.04391	.00347	3.09920	.00000
4.500	9.000	.01321	.02376	.00299	.04613	.00299	3.01320	.00000
4.500	10.000	.01344	.02977	.00356	.04816	.00249	3.00940	.00000
4.500	GRADIENT	.00045	.00582	.00072	.00016	-.00021	-.01088	.00000

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(107L040) (18 APR 74)

AEDC VA-422(11A-57), CRUJET W/BOOM 870

REFERENCE DATA

REF = 2000.0000 50. FT. 1000 = 1167.0000 IN. X8
 UREF = 1000.0000 IN. 1000 = .0000 IN. Y8
 ZREF = 1000.0000 IN. 25
 SCALE = .0100

PARAMETRIC DATA

L-870 = 2.000 R-870 = 2.000
 SR-870 = 2.200 RW/L = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO. 32/ 0 RV/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

WACH	BETA	ALPHA	ON	CLN	CT	CYN	COL	W/L
4.500	-10.000	-.13453	-.01630	-.00736	.06223	.01911	2.76180	.00000
4.500	-9.000	-.12776	-.01929	-.00722	.07653	.01731	2.79950	.00000
4.500	-8.000	-.12076	-.02163	-.00662	.07353	.01637	2.77000	.00000
4.500	-7.000	-.11422	-.02239	-.00636	.06930	.01527	2.78180	.00000
4.500	-6.000	-.10602	-.02447	-.00566	.06261	.01411	2.76180	.00000
4.500	-5.000	-.10421	-.02474	-.00521	.05710	.01279	2.76180	.00000
4.500	-4.000	-.10012	-.02417	-.00496	.05062	.01176	2.76180	.00000
4.500	-3.000	-.09568	-.02463	-.00479	.04477	.01068	2.76180	.00000
4.500	-2.000	-.09180	-.02515	-.00447	.04008	.00960	2.76180	.00000
4.500	-1.000	-.08941	-.02514	-.00431	.03596	.00853	2.77270	.00000
4.500	.000	-.08772	-.02568	-.00392	.03229	.00694	2.76870	.00000
4.500	1.000	-.08539	-.02715	-.00322	.02904	.00563	2.76180	.00000
4.500	2.000	-.08416	-.02767	-.00276	.02444	.00414	2.76180	.00000
4.500	3.000	-.08393	-.02867	-.00223	.02049	.00300	2.76180	.00000
4.500	4.000	-.08379	-.03060	-.00132	.01690	.00163	2.76750	.00000
4.500	5.000	-.08551	-.03235	-.00035	.01317	.00066	2.76180	.00000
4.500	6.000	-.08848	-.03403	.00024	.00906	-.00045	2.76180	.00000
4.500	7.000	-.09030	-.03584	.00112	.00463	-.00193	2.76193	.00000
4.500	8.000	-.09188	-.03785	.00207	-.00006	-.00269	2.77750	.00000
4.500	9.000	-.09344	-.03907	.00295	-.00395	-.00394	2.77460	.00000
4.500	10.000	-.09571	-.04071	.00414	-.00696	-.00497	2.76180	.00000
4.500	GRADIENT	.00194	-.00076	.00046	-.00425	-.00126	-.00042	.00000

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AEDC VA-422(1A-57), CRB/ET W/BOOTH SRB

(13T047) (16 APR 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. XMRP = 1167.0000 IN. XS
LREF = 1290.3000 IN. YMRP = .0000 IN. YS
BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
SRBOS = 2.200 RV/L = 1.760
PT-JET = 750.000 BETA = .000

RUN NO. 30/ 0 RV/L = 1.94 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CT	CYN	PCL	MTL
4.500	-10.000	-.00449	-.52346	-.03172	.29696	.02385	737.45000	.44192
4.500	-9.000	-.00190	-.51841	-.03113	.29666	.02301	737.59000	.44300
4.500	-8.000	-.00084	-.51229	-.03134	.29653	.02218	737.49000	.44286
4.500	-7.000	-.00222	-.50751	-.03156	.29692	.02210	737.61000	.44265
4.500	-6.000	.00243	-.50284	-.03157	.29647	.02220	737.69000	.44194
4.500	-5.000	.01044	-.49784	-.03126	.29751	.02243	737.57000	.44257
4.500	-4.000	.01081	-.49233	-.03064	.29703	.02276	737.74000	.44200
4.500	-3.000	.01097	-.48704	-.02982	.29617	.02280	737.76000	.44280
4.500	-2.000	.01125	-.48306	-.02833	.29470	.02268	736.13000	.44260
4.500	-1.000	.00883	-.48063	-.02643	.29382	.02278	736.37000	.44215
4.500	.000	.00873	-.47926	-.02392	.29422	.02270	736.19000	.44272
4.500	1.000	.00900	-.47747	-.02171	.29636	.02213	736.19000	.44272
4.500	2.000	.01124	-.47405	-.01967	.30036	.02094	736.13000	.44307
4.500	3.000	.01274	-.47035	-.01764	.30460	.01922	736.36000	.44269
4.500	4.000	.01393	-.46674	-.01607	.30960	.01753	736.27000	.44290
4.500	5.000	.01478	-.46272	-.01454	.31510	.01537	736.66000	.44160
4.500	6.000	.01484	-.45787	-.01294	.31996	.01316	736.47000	.44256
4.500	7.000	.01420	-.45369	-.01162	.32542	.01102	736.29000	.44265
4.500	8.000	.01486	-.44830	-.01092	.33135	.00938	736.57000	.44284
4.500	9.000	.01672	-.44170	-.01066	.33435	.00811	736.48000	.44264
4.500	10.000	.02237	-.43415	-.01110	.33954	.00514	736.56000	.44221
GRADIENT		.00036	.00317	.00182	.00162	-.00066	.00391	-.00001

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AEDC VA-422(1A-37), ORB/ET W/BOTH SRS

(87L048) (16 APR 74.)

REFERENCE DATA

REF = 2000.0000 90.FT. YMRP = 1167.0000 IN. XS
LREF = 1290.3000 IN. YMRP = .0000 IN. YS
REF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 2.000
SRSFOS = 2.200 RSVL = 1.760
PT-JET = 790.000 ALPHA = .000

RUN NO. 28/ 0 RSVL = 1.84 GRADIENT INTERVAL = -3.00/ 5.00

MAOI	BETA	ALPHA	ON	CLH	CY	CTN	PCL	MTL
4.500	-10.000	-.13562	-.46899	-.03632	.34705	.04468	741.52000	.44597
4.500	-9.000	-.13242	-.47177	-.03392	.34282	.04146	741.64000	.44215
4.500	-8.000	-.12830	-.47717	-.03259	.33692	.03829	741.69000	.44307
4.500	-7.000	-.11666	-.47931	-.03159	.32979	.03529	741.49000	.44292
4.500	-6.000	-.11136	-.48263	-.02992	.32476	.03276	741.56000	.44390
4.500	-5.000	-.10525	-.48501	-.02817	.32047	.03036	741.65000	.44311
4.500	-4.000	-.09858	-.48548	-.02708	.31994	.02837	741.60000	.44338
4.500	-3.000	-.09107	-.48481	-.02649	.31137	.02632	741.61000	.44403
4.500	-2.000	-.08392	-.48570	-.02591	.30562	.02463	741.79000	.44329
4.500	-1.000	-.07918	-.48486	-.02522	.29863	.02357	741.86000	.44310
4.500	.000	-.07755	-.48204	-.02510	.29279	.02251	741.70000	.44376
4.500	1.000	-.07626	-.48024	-.02475	.28776	.02082	741.50000	.44362
4.500	2.000	-.06006	-.47915	-.02456	.28333	.01865	741.64000	.44348
4.500	3.000	-.06107	-.47886	-.02456	.27890	.01660	741.69000	.44338
4.500	4.000	-.06312	-.47949	-.02440	.27341	.01504	741.69000	.44283
4.500	5.000	-.06573	-.48050	-.02413	.26759	.01372	741.60000	.44346
4.500	6.000	-.06774	-.48127	-.02394	.26207	.01283	741.69000	.44324
4.500	7.000	-.06835	-.48239	-.02372	.25806	.01202	741.74000	.44360
4.500	8.000	-.06959	-.48399	-.02337	.25368	.01113	741.78000	.44351
4.500	9.000	-.06484	-.48620	-.02312	.25058	.01030	741.84000	.44346
4.500	10.000	-.06497	-.48914	-.02275	.24749	.00953	741.85000	.44323
	GRADIENT	.00180	.00073	.00036	-.00534	-.00164	.00191	.00001

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(87L048) (18 APR 74)

REFERENCE DATA

SRP = 2690.0000 SQ.FT. YMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRP08 = 2.200 RV/L = 1.760
 PT-JET = 1500.030 BETA = .000

RUN NO. 26/ 0 RV/L = 1.84 GRADIENT INTERVAL = -3.00/ 3.00

MAOH	ALPHA	BETA	ON	CLM	C7	CYN	PG	MTL
4.500	-10.000	.02714	-.97846	-.05744	.56363	.04350	1489.80000	.91048
4.500	-9.000	.03653	-.97221	-.05687	.56313	.04307	1490.30000	.90881
4.500	-8.000	.04750	-.96629	-.05626	.56143	.04254	1490.30000	.91023
4.500	-7.000	.04750	-.95934	-.05523	.55940	.04171	1490.20000	.90892
4.500	-6.000	.04991	-.95260	-.05434	.55792	.04055	1490.20000	.90849
4.500	-5.000	.03990	-.54345	-.05370	.55302	.03946	1490.00000	.91001
4.500	-4.000	.03221	-.93922	-.05295	.55239	.03832	1490.39999	.90899
4.500	-3.000	.02782	-.93441	-.05191	.55001	.03790	1490.80000	.90969
4.500	-2.000	.02385	-.92960	-.05002	.54872	.03747	1491.50000	.91200
4.500	-1.000	.01416	-.92649	-.04792	.54818	.03703	1492.10001	.90962
4.500	.000	.00698	-.92271	-.04490	.54697	.03657	1491.20000	.89783
4.500	1.000	.01176	-.91888	-.04151	.54683	.03557	1487.20000	.90381
4.500	2.000	.02115	-.91693	-.03898	.55016	.03416	1487.70000	.91404
4.500	3.000	.02371	-.91423	-.03683	.55491	.03280	1489.50000	.91473
4.500	4.000	.02231	-.91142	-.03543	.56013	.03213	1492.30000	.91794
4.500	5.000	.02206	-.90638	-.03421	.56493	.03113	1494.00000	.91635
4.500	6.000	.02282	-.90014	-.03300	.57002	.02984	1493.20000	.91341
4.500	7.000	.02328	-.89336	-.03141	.57323	.02818	1492.30000	.91388
4.500	8.000	.02489	-.88636	-.03004	.58024	.02616	1496.80000	.91336
4.500	9.000	.02766	-.87891	-.02927	.58328	.02411	1497.80000	.91344
4.500	10.000	.02964	-.87177	-.02837	.59040	.02239	1498.30000	.91330
4.500	GRADIENT	-.00129	.00364	.00219	.00067	-.00062	.10162	.00073

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AEDC VA-422(1A-37), ORB/ET W/BOIM SRB

(187L050) (18 APR 74)

REFERENCE DATA

SRP = 2490.0000 90.FT. XGRP = 1167.0000 IN. XS
 LGRP = 1290.3000 IN. YGRP = .0000 IN. YS
 BRP = 1290.3000 IN. ZGRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRP/OS = 2.200 RV/L = 1.760
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 25/ 0 RV/L = 1.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CLN	CY	CYN	PCL	MTL
4.500	-10.000	-.03235	-.90829	-.05235	.59145	.03332	1490.70000	.91990
4.500	-9.000	-.02856	-.91192	-.05340	.59091	.03364	1492.00000	.91323
4.500	-8.000	-.02928	-.91543	-.05400	.59060	.03325	1492.50000	.91364
4.500	-7.000	-.02622	-.91762	-.05499	.59426	.03439	1493.20000	.91426
4.500	-6.000	-.02275	-.91969	-.05521	.57928	.03279	1493.80000	.91219
4.500	-5.000	-.02235	-.92106	-.05606	.57591	.04973	1493.99999	.91092
4.500	-4.000	-.02335	-.92263	-.05631	.57291	.04995	1494.30000	.91440
4.500	-3.000	-.03596	-.92496	-.05493	.56766	.04274	1494.70000	.91345
4.500	-2.000	-.03263	-.92631	-.05186	.56060	.04036	1495.00000	.91352
4.500	-1.000	-.03167	-.92776	-.04790	.55349	.53825	1495.30000	.91242
4.500	.000	-.04042	-.92700	-.04471	.54607	.03333	1495.50000	.91374
4.500	1.000	-.02421	-.92718	-.04272	.53953	.03220	1495.80001	.91404
4.500	2.000	-.01992	-.92903	-.04263	.53390	.13215	1496.00000	.91355
4.500	3.000	-.01932	-.93022	-.04251	.52696	.03126	1496.20000	.91378
4.500	4.000	-.02145	-.93221	-.04144	.51909	.03027	1496.50000	.91475
4.500	5.000	-.02273	-.93368	-.04004	.51123	.02923	1496.70000	.91369
4.500	6.000	-.01925	-.93559	-.03915	.50452	.02811	1497.00000	.91426
4.500	7.000	-.01623	-.93835	-.03849	.49969	.02679	1497.70000	.91461
4.500	8.000	-.01449	-.94042	-.03792	.49615	.02517	1497.80001	.91322
4.500	9.000	-.01324	-.94185	-.03746	.49285	.02337	1497.70000	.91358
4.500	10.000	-.01311	-.94196	-.03720	.49007	.02147	1497.39999	.91375
GRADIENT		.00143	-.00111	.00162	-.00664	-.00201	.26909	.00009

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ADC VA-422(1A-87), CRD/CT W/BOTH SRS

(BTLS1) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 80.FT. XMRP = 1167.0000 IN. Y8
 LRP = 1290.3000 IN. YMRP = .0000 IN. Y8
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-876 = 2.000 R-876 = 2.000
 SRP-8 = 2.200 RV/L = 2.000
 PT-JET = 1900.000 BETA = .000

RUN NO. 22/ 0 RV/L = 2.23 GRADIENT INTERVAL = -.00/ 3.00

WAOH	ALPHA	BETA	ON	QJ	CY	CYN	PCJ	MIL
4.500	-10.000	.03250	-.82480	-.04834	.47484	.03778	1496.70000	.91338
4.500	-9.000	.03302	-.81800	-.04783	.47294	.03676	1496.39999	.91321
4.500	-8.000	.03311	-.81113	-.04666	.47092	.03555	1495.80001	.91421
4.500	-7.000	.03114	-.80328	-.04643	.46875	.03456	1495.20000	.91296
4.500	-6.000	.03232	-.79664	-.04382	.46669	.03328	1494.60001	.91344
4.500	-5.000	.03148	-.79012	-.04328	.46431	.03242	1494.20000	.91403
4.500	-4.000	.02133	-.78457	-.04419	.46261	.03169	1493.89999	.91291
4.500	-3.000	.01939	-.77969	-.04201	.46051	.03063	1493.30000	.91292
4.500	-2.000	.01481	-.77604	-.04004	.45947	.02963	1493.10001	.91296
4.500	-1.000	.01449	-.77288	-.03934	.45980	.02962	1493.10001	.91413
4.500	.000	.01825	-.77123	-.03676	.46136	.02966	1493.70000	.91281
4.500	1.000	.01617	-.76935	-.03480	.46357	.02953	1493.89999	.91281
4.500	2.000	.01676	-.76808	-.03280	.46715	.02892	1494.20000	.91450
4.500	3.000	.01576	-.76450	-.03008	.47077	.02756	1494.00000	.91212
4.500	4.000	.01635	-.76027	-.02769	.47416	.02646	1494.00000	.91207
4.500	5.000	.01646	-.75432	-.02591	.47820	.02534	1494.10001	.91355
4.500	6.000	.02204	-.74623	-.02309	.48244	.02362	1493.00000	.91032
4.500	7.000	.02464	-.73862	-.02433	.48829	.02127	1492.20000	.91296
4.500	8.000	.02439	-.73150	-.02364	.49390	.01946	1491.89529	.91127
4.500	9.000	.02370	-.72496	-.02303	.49819	.01833	1491.50000	.91248
4.500	10.000	.02393	-.71911	-.02224	.50306	.01712	1491.39999	.91028
	GRADIENT	-.00072	.00310	.00197	.00151	-.00061	.04546	-.00006

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AEDC VA-422(1A-37), CRB/ET W/BOTH SRB

(87L0520 (16 APR 74)

REPORT-X DATA

SRP = 2980.0000 SQ.FT. XPRP = 1167.0000 IN. X8
 LREF = 1290.0000 IN. YMRP = .0000 IN. Y8
 BRP = 1290.0000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 2.000
 SRP08 = 2.200 RV/L = 2.060
 PT-JET = 1900.000 ALPHA = .000

RUN NO. 24/ 0 RV/L = 2.23 GRADIENT INTERVAL = -9.00/ 9.00

MAOH	BETA	ALPHA	ON	QJH	CV	CYN	POL	MTL
4.900	-10.000	-.06336	-.73636	-.04797	.51156	.05331	1491.00000	.91137
4.900	-9.000	-.07328	-.75832	-.04846	.50860	.05224	1490.80000	.90931
4.900	-8.000	-.07359	-.76011	-.04872	.50103	.05297	1490.60001	.91043
4.900	-7.000	-.07030	-.76227	-.04876	.49404	.04938	1490.20000	.91000
4.900	-6.000	-.07159	-.76529	-.04831	.48822	.04691	1490.00000	.90968
4.900	-5.000	-.07102	-.76548	-.04709	.48301	.04337	1489.80000	.91016
4.900	-4.000	-.06883	-.76328	-.04529	.47747	.03998	1489.60000	.91066
4.900	-3.000	-.05745	-.76679	-.04261	.47159	.03696	1489.39999	.91096
4.900	-2.000	-.04844	-.76866	-.04034	.46637	.03363	1489.60001	.91103
4.900	-1.000	-.04539	-.76866	-.03734	.46185	.03062	1489.30000	.91003
4.900	.000	-.04741	-.76960	-.03749	.45612	.02916	1489.20000	.90998
4.900	1.000	-.05207	-.76774	-.03773	.44893	.02845	1489.60001	.91331
4.900	2.000	-.05990	-.76666	-.03732	.44161	.02782	1490.30000	.91170
4.900	3.000	-.06802	-.76734	-.03668	.43330	.02662	1490.89999	.91022
4.900	4.000	-.06613	-.76939	-.03562	.42647	.02531	1490.89999	.91186
4.900	5.000	-.06353	-.77178	-.03496	.42038	.02438	1491.10001	.90999
4.900	6.000	-.05976	-.77382	-.03421	.41544	.02313	1491.00000	.91171
4.900	7.000	-.05677	-.77580	-.03345	.41157	.02162	1491.30000	.91154
4.900	8.000	-.05144	-.77731	-.03277	.40859	.02016	1491.30000	.91096
4.900	9.000	-.04643	-.77904	-.03229	.40397	.01867	1491.30000	.91044
4.900	10.000	-.04363	-.78097	-.03173	.40293	.01711	1491.30000	.90813
GRADIENT		-.00023	-.00042	.00111	-.00630	-.00160	.13343	.00006

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AEDC VA-422(1A-57), ORB/ET W/BOOTH 588

(BTLOSS) (18 APR 74)

REFERENCE DATA

SREF = 2890.0000 30.FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP08 = 3.900 RVL = 1.015
 PT-JET = 1500.000 BETA = .000

RUN NO. 56/0 RVL = 1.05 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	ALPHA	BETA	ON	QJ	CY	CYN	PC	MTL
4.490	-10.000	.00136	-1.5860	-.03136	.93338	.01324	1502.89999	.91933
4.490	-9.000	.00802	-1.59070	-.03593	.93946	.01797	1502.00000	.91924
4.490	-8.000	.00843	-1.59230	-.03980	.94011	.02009	1501.80000	.92128
4.490	-7.000	.00843	-1.59010	-.03938	.94096	.02131	1501.20000	.91963
4.490	-6.000	.00771	-1.58920	-.04082	.94135	.02234	1501.50000	.92039
4.490	-5.000	.00777	-1.58670	-.04114	.94118	.02344	1501.00000	.92017
4.490	-4.000	.00856	-1.58383	-.04174	.94079	.02461	1501.10001	.92059
4.490	-3.000	.01030	-1.58190	-.04241	.94038	.02564	1500.89999	.92192
4.490	-2.000	.00414	-1.57690	-.04313	.94051	.02695	1501.30000	.91928
4.490	-1.000	.00034	-1.57070	-.04392	.94092	.02766	1501.00000	.92134
4.490	.000	-.00270	-1.56310	-.04485	.94268	.02792	1501.00000	.92053
4.490	1.000	.00019	-1.55940	-.04562	.94568	.02774	1501.00000	.92239
4.490	2.000	.00302	-1.55390	-.04643	.95011	.02637	1501.60001	.92332
4.490	3.000	.00674	-1.55130	-.04701	.95110	.02532	1501.20000	.92507
4.490	4.000	.01030	-1.54850	-.04779	.95067	.02390	1504.39999	.92424
4.490	5.000	.01171	-1.54620	-.04842	.96390	.02246	1504.50000	.92422
4.490	6.000	.01300	-1.54320	-.04901	.96755	.02161	1504.60001	.92118
4.490	7.000	.01727	-1.54080	-.04956	.96931	.02133	1503.89999	.91748
4.490	8.000	.01911	-1.53780	-.04926	.97109	.02059	1502.89999	.91817
4.490	9.000	.02124	-1.53580	-.04844	.97621	.01888	1502.10001	.91780
4.490	10.000	.02312	-1.53250	-.04739	.98139	.01649	1502.00000	.91933
GRADIENT		.00012	.00448	-.00226	.00249	-.00009	.34727	.00031

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AEDC VA-422(1A-57), CRG/ET W/BOTH SRB

(STL034) (13 APR 74)

REFERENCE DATA

SRP = 2000.0000 SQ.FT. YMRP = 1167.0000 IN. XS
LREF = 1290.3000 IN. YMRP = .0000 IN. YS
SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
SRP/PCB = 3.300 RV/L = 1.400
PT-JET = 1900.000 BETA = .000

RUN NO. 55/ 0 RV/L = 1.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PC	MTL
4.500	-10.000	-.00005	-1.19750	-.03125	.70476	.01854	1496.89999	.92494
4.500	-9.000	.00024	-1.19640	-.03157	.70616	.01886	1498.00000	.92604
4.500	-8.000	.00056	-1.19420	-.03151	.70607	.01892	1498.30000	.92481
4.500	-7.000	.00283	-1.19190	-.03131	.70687	.01888	1499.30000	.92317
4.500	-6.000	.00580	-1.18740	-.03061	.70610	.01921	1499.30000	.92293
4.500	-5.000	.00557	-1.18370	-.04993	.70576	.01906	1498.39999	.92216
4.500	-4.000	.00331	-1.17940	-.04933	.70493	.01923	1498.39999	.92147
4.500	-3.000	-.00021	-1.17430	-.04968	.70407	.01976	1498.10001	.92265
4.500	-2.000	-.00353	-1.16810	-.03116	.70253	.02026	1498.00000	.91985
4.500	-1.000	-.00092	-1.16010	-.03101	.70156	.02066	1497.39999	.91335
4.500	.000	.00280	-1.15000	-.03207	.70240	.02029	1493.89999	.91669
4.500	1.000	.00337	-1.14310	-.03241	.70777	.01855	1494.10001	.92658
4.500	2.000	.00726	-1.13670	-.03199	.71394	.01849	1496.30000	.92687
4.500	3.000	.00360	-1.13610	-.03114	.71989	.01458	1498.00000	.92613
4.500	4.000	.00425	-1.13400	-.04968	.72591	.01326	1498.89999	.92749
4.500	5.000	.00317	-1.13100	-.04791	.72692	.01228	1500.00000	.92520
4.500	6.000	.00389	-1.12920	-.04617	.72967	.01143	1500.89999	.92370
4.500	7.000	.00423	-1.12750	-.04432	.73278	.01087	1501.30000	.92459
4.500	8.000	.00215	-1.12570	-.04240	.73663	.00963	1501.30000	.92615
4.500	9.000	-.00077	-1.12370	-.04020	.74161	.00786	1502.20000	.92758
4.500	10.000	.00040	-1.12240	-.03763	.74665	.00627	1503.10001	.92999
GRADIENT		.00034	.00576	.00000	.00235	-.00073	.02727	.00074

AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(STLOSS) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 SQ.FT. XMRP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP/CB = 3.300 RV/L = 1.400
 PT-JET = 1900.000 ALPHA = .003

RUN NO. 94/ 0 RV/L = 1.49 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	BETA	ALPHA	ON	CLM	CY	CTN	PCL	MTL
4.500	-10.000	-.10875	-1.13180	-.04875	.78521	.02534	1480.00000	.91932
4.500	-8.000	-.10443	-1.13170	-.04850	.78634	.02579	1482.50000	.92303
4.500	-6.000	-.10198	-1.13320	-.05022	.74771	.02598	1483.80000	.92159
4.500	-7.000	-.09950	-1.13570	-.05060	.74082	.02573	1483.70000	.92431
4.500	-8.000	-.09574	-1.13780	-.05074	.73394	.02503	1486.50000	.92119
4.500	-9.000	-.09072	-1.13850	-.05107	.72798	.02414	1486.80001	.92138
4.500	-4.000	-.08698	-1.13910	-.05168	.72197	.02316	1486.50000	.92330
4.500	-3.000	-.08579	-1.14120	-.05257	.71483	.02280	1487.30000	.92310
4.500	-2.000	-.08745	-1.14250	-.05283	.70828	.02195	1487.50000	.92149
4.500	-1.000	-.09173	-1.14560	-.05223	.70115	.02149	1487.50000	.92227
4.500	1.000	-.09524	-1.14850	-.05159	.69563	.02066	1488.35999	.92412
4.500	2.000	-.09348	-1.15110	-.05088	.69167	.01993	1489.20000	.92302
4.500	3.000	-.09123	-1.15320	-.05060	.68742	.01941	1490.20000	.92456
4.500	4.000	-.08889	-1.15510	-.05102	.68285	.0197	1490.50000	.92198
4.500	5.000	-.08427	-1.15630	-.05172	.67686	.02014	1490.89999	.92379
4.500	6.000	-.08162	-1.15630	-.05259	.67165	.02015	1490.80001	.92392
4.500	7.000	-.07963	-1.15820	-.05311	.66707	.01968	1491.10001	.92220
4.500	8.000	-.07939	-1.15980	-.05338	.66307	.01876	1491.50000	.92341
4.500	9.000	-.08171	-1.16130	-.05316	.65932	.01763	1490.80000	.91959
4.500	10.000	-.08532	-1.15460	-.05291	.65635	.01650	1490.30000	.92230
4.500	11.000	-.08997	-1.15550	-.05231	.65250	.01560	1490.20000	.92171
4.500	12.000	-.0934	-.00203	.00002	-.00554	-.00043	.49364	.00028

GRADIENT

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AEDC VA-422(1A-57), CRB/ET W/BOOM SRB

(081054) (16 APR 74)

REFERENCE DATA

SRP = 2880.0000 SR.FT. XMRP = 1167.0000 IN. X8
 UPR = 1250.3000 IN. YMRP = .0000 IN. Y8
 SRP = 1250.3000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP08 = 3.500 RV/L = 1.780
 PT-JET = .000 BETA = .000

RUN NO. 92/ 0 RV/L = 1.84 GRADIENT INTERVAL = -.900/ 1.00

MAOH	ALPHA	BETA	ON	CLM	CY	CTN	PCL	MTL
4.500	-10.000	-.00418	-1.4879	-.00325	.07999	.00470	.62924	.00000
4.500	-9.000	-.00326	-.13762	-.00321	.07946	.00396	.62024	.00000
4.500	-8.000	-.00225	-.12680	-.00336	.07899	.00348	.62024	.00000
4.500	-7.000	-.00117	-.11582	-.00374	.07770	.00332	.62024	.00000
4.500	-6.000	-.00044	-.10490	-.00429	.07624	.00362	.57153	.00000
4.500	-5.000	.00040	-.09423	-.00471	.07496	.00364	.61220	.00000
4.500	-4.000	.00136	-.08464	-.00482	.07369	.00347	.57390	.00000
4.500	-3.000	.00219	-.07600	-.00453	.07285	.00309	.54466	.00000
4.500	-2.000	.00320	-.06848	-.00401	.07276	.00251	.59966	.00000
4.500	-1.000	.00425	-.06072	-.00338	.07263	.00177	.57399	.00000
4.500	.000	.00457	-.05369	-.00255	.07232	.00108	.60313	.00000
4.500	1.000	.00501	-.04709	-.00179	.07226	.00046	.59009	.00000
4.500	2.000	.00592	-.04074	-.00092	.07223	-.00037	.59040	.00000
4.500	3.000	.00637	-.03476	-.00003	.07152	-.00094	.60920	.00000
4.500	4.000	.00784	-.02896	.00081	.07109	-.00137	.56337	.00000
4.500	5.000	.00972	-.02348	.00169	.07068	-.00216	.56150	.00000
4.500	6.000	.01076	-.01892	.00248	.07063	-.00273	.45791	.00000
4.500	7.000	.01303	-.01376	.00391	.07012	-.00346	.52636	.00000
4.500	8.000	.01509	-.00834	.00591	.07012	-.00373	.54266	.00000
4.500	9.000	.01564	-.00304	.00472	.06834	-.00328	.52103	.00000
4.500	10.000	.01681	.00335	.00503	.06389	-.00233	.49932	.00000
4.500	GRADIENT	.00060	.00699	.00069	-.00033	-.00061	-.00179	.00000

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AEDC VA-422(11A-57) . CRG/ET W/80TH 886

(STUDY) (18 APR 74)

REFERENCE DATA

SRF = 2880.0000 SQ.FT. YARP = 1167.0000 IN. X3
 LREF = 1290.3000 IN. YARP = .0000 IN. Y5
 BREF = 1290.3000 IN. ZARP = 400.0000 IN. Z3
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 3.000 E-SRS = 3.000
 SRSPOS = 3.300 RSVL = 1.780
 PT-JET = .000 ALPHA = .000

RUN NO. 53/ 0 RSVL = 1.84 GRADIENT INTERVAL = -.000/ 3.00

MAOH	BETA	ALPHA	ON	CLN	CT	CTN	POL	MTL
4.500	-10.000	-.12774	-.06354	-.00568	.16119	.00693	.24883	.00000
4.500	-9.000	-.12226	-.06313	-.00518	.15399	.00623	.23993	.00000
4.500	-8.000	-.11612	-.06236	-.00472	.14044	.00579	.21571	.00000
4.500	-7.000	-.11036	-.06165	-.00440	.13061	.00539	.22736	.00000
4.500	-6.000	-.10471	-.06016	-.00426	.12122	.00516	.22651	.00000
4.500	-5.000	-.10149	-.05914	-.00423	.11160	.00469	.22723	.00000
4.500	-4.000	-.09622	-.05808	-.00420	.10204	.00480	.22723	.00000
4.500	-3.000	-.09406	-.05756	-.00404	.09320	.00429	.33930	.00000
4.500	-2.000	-.09039	-.05741	-.00357	.08383	.00352	.27399	.00000
4.500	-1.000	-.08819	-.05730	-.00303	.07912	.00259	.24849	.00000
4.500	.000	-.08634	-.05742	-.00222	.07193	.00184	.22723	.00000
4.500	1.000	-.08391	-.05721	-.00171	.06496	.00103	.22723	.00000
4.500	2.000	-.08228	-.05688	-.00121	.05841	.00015	.24330	.00000
4.500	3.000	-.08132	-.05638	-.00063	.05171	-.00060	.22723	.00000
4.500	4.000	-.08010	-.05630	-.00003	.04541	-.00133	.22723	.00000
4.500	5.000	-.08148	-.05587	.00032	.03834	-.00219	.22723	.00000
4.500	6.000	-.08326	-.05557	.00079	.03286	-.00273	.22723	.00000
4.500	7.000	-.08421	-.05534	.00111	.02644	-.00334	.22723	.00000
4.500	8.000	-.08507	-.05569	.00080	.02096	-.00396	.22723	.00000
4.500	9.000	-.08584	-.05133	.00014	.01476	-.00440	.22723	.00000
4.500	10.000	-.08731	-.04863	-.00092	.00832	-.00436	.22723	.00000
GRADIENT		.00211	.00025	.00051	-.00710	-.00076	-.00381	.00000

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(1371036) (18 APR 74)

AEDC VA-422(1A-57), CRD/ET WIDTH 875

REFERENCE DATA

SPOT = 2000.0000 50. FT. XREF = 1167.0000 IN. X3
 LREF = 1290.3000 IN. YREF = .0000 IN. Y5
 SPOT = 1290.3000 IN. ZREF = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-900 = 3.000 R-875 = 3.000
 SPOTOS = 3.300 RVL = 1.760
 PT-JET = 790.000 BETA = .000

RUN NO. 51/ 0 RVL = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.00417	-.54216	-.03116	.30235	.01794	796.00000	.44302
4.500	-9.000	-.00313	-.53460	-.03133	.30894	.01839	796.17500	.44308
4.500	-8.000	-.00214	-.52963	-.03196	.30333	.01886	796.46000	.44363
4.500	-7.000	-.00137	-.52172	-.03219	.30226	.01929	796.43000	.44364
4.500	-6.000	-.00079	-.51538	-.03248	.30162	.01960	796.47500	.44342
4.500	-5.000	-.00040	-.50853	-.03303	.30103	.02006	796.21000	.44321
4.500	-4.000	-.00103	-.50383	-.03339	.30145	.01962	797.90000	.44422
4.500	-3.000	-.00164	-.50014	-.03301	.30257	.01960	797.86000	.44411
4.500	-2.000	-.00189	-.49576	-.03229	.30426	.01924	797.62000	.44394
4.500	-1.000	-.00231	-.49175	-.03124	.30669	.01875	797.73000	.44272
4.500	.000	-.00267	-.48775	-.03014	.30939	.01730	797.86000	.44334
4.500	1.000	-.00130	-.48371	-.02899	.31279	.01691	797.60000	.44304
4.500	2.000	.00147	-.48071	-.02731	.31561	.01598	797.57000	.44336
4.500	3.000	.00182	-.47796	-.02580	.31896	.01488	797.51000	.44304
4.500	4.000	.00375	-.47539	-.02411	.32177	.01363	797.16000	.44334
4.500	5.000	.00406	-.47279	-.02236	.32376	.01293	797.23000	.44405
4.500	6.000	.00372	-.46945	-.02095	.32563	.01223	797.17500	.44331
4.500	7.000	.00379	-.46602	-.01943	.32639	.01159	797.06000	.44343
4.500	8.000	.00379	-.46278	-.01803	.32726	.01193	797.12500	.44322
4.500	9.000	.00477	-.45912	-.01664	.32836	.01251	797.19000	.44324
4.500	10.000	-.00603	-.45601	-.01487	.32603	.01325	797.19000	.44244
GRADIENT		.00036	.00361	.00113	.00247	-.00076	-.06461	-.00003

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AEDC VA-422(11A-37), CR3/ET W/BOTH SRB

(87L059) (16 APR 74)

REFERENCE DATA

SRP = 2000.0000 90. FT. XMRP = 1167.0000 IN. X8
 LMRP = 1290.3000 IN. YMRP = .0000 IN. Y5
 SRE7 = 1290.3000 IN. ZMRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPO6 = 3.300 RV/L = 1.780
 PT-JET = 750.000 ALPHA = .000

RUN NO. 50/ 0 RV/L = 1.64 GRADIENT INTERVAL = -.5.00/ 5.00

MAOH	BETA	ALPHA	ON	CLH	CV	CYN	POL	MTL
4.500	-10.000	-.22161	-.48333	-.02531	.42148	.00051	742.77000	.44311
4.500	-9.000	-.21736	-.48202	-.02806	.41053	.00148	742.48000	.44309
4.500	-8.000	-.21313	-.48200	-.02744	.39793	.00333	742.63000	.44492
4.500	-7.000	-.20736	-.48231	-.02806	.38354	.00672	742.79000	.44579
4.500	-6.000	-.20212	-.48323	-.02835	.36957	.00995	742.76000	.44597
4.500	-5.000	-.19875	-.48408	-.02909	.35767	.01236	742.68000	.44599
4.500	-4.000	-.19503	-.48389	-.03073	.34647	.01438	742.63000	.44566
4.500	-3.000	-.19096	-.48343	-.03075	.33668	.01589	742.89000	.44499
4.500	-2.000	-.18622	-.48768	-.03117	.32681	.01720	742.72000	.44491
4.500	-1.000	-.18277	-.49033	-.03110	.31682	.01828	742.71000	.44403
4.500	.000	-.18085	-.49291	-.03083	.30750	.01910	742.75000	.44532
4.500	1.000	-.17613	-.49400	-.03090	.30058	.01944	742.71000	.44479
4.500	2.000	-.17746	-.49317	-.03035	.29532	.01902	742.71000	.44436
4.500	3.000	-.17874	-.49089	-.03118	.29237	.01811	742.62000	.44494
4.500	4.000	-.17976	-.49112	-.03134	.28828	.01720	742.46000	.44478
4.500	5.000	-.18164	-.49334	-.03077	.28193	.01650	742.35000	.44322
4.500	6.000	-.18283	-.49354	-.03028	.27699	.01527	742.24000	.44315
4.500	7.000	-.18354	-.49356	-.02958	.27326	.01397	742.30000	.44333
4.500	8.000	-.18473	-.49667	-.02919	.27071	.01248	742.08000	.44533
4.500	9.000	-.18676	-.50010	-.02753	.26739	.01145	742.18000	.44491
4.500	10.000	-.19284	-.50312	-.02557	.26242	.01087	742.30000	.44580
4.500	GRADIENT	.00187	-.00097	-.00012	-.00746	.00040	-.02809	-.00005

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AEDC VA-422(1A-37), CRUJET W/BOOM SRS

(STL000) (16 APR 74)

REFERENCE DATA

REF = 2000.0000 IN. FT. XREF = 1107.0000 IN. XS
 LREF = 1250.3000 IN. YREF = .0000 IN. YS
 BREF = 1250.3000 IN. ZREF = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 3.000 R-SRS = 3.000
 SRSPOS = 3.300 RSVL = 1.760
 PT-JET = 1500.000 BETA = .000

RUN NO. 47/ 0 RSVL = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.00167	-.98604	-.04774	.57983	.01833	1501.50000	.91776
4.500	-9.000	-.00149	-.98406	-.04729	.57973	.01836	1500.39999	.91931
4.500	-8.000	-.00147	-.98027	-.04636	.57922	.01821	1499.60001	.92000
4.500	-7.000	-.00270	-.97687	-.04531	.57866	.01803	1498.89999	.92081
4.500	-6.000	-.00342	-.97230	-.04422	.57804	.01774	1498.39999	.91996
4.500	-5.000	-.00359	-.96743	-.04354	.57806	.01769	1497.89999	.91948
4.500	-4.000	-.00276	-.96235	-.04328	.57483	.01792	1497.70000	.91971
4.500	-3.000	-.00209	-.95620	-.04327	.57363	.01834	1497.89999	.92049
4.500	-2.000	-.00027	-.94988	-.04359	.57383	.01842	1497.39999	.91997
4.500	-1.000	-.00116	-.94030	-.04482	.57649	.01775	1497.50000	.92009
4.500	.000	.00288	-.93227	-.04567	.58024	.01634	1497.20000	.92132
4.500	1.000	.01030	-.92768	-.04597	.58478	.01467	1498.00000	.91976
4.500	2.000	.00912	-.92412	-.04541	.59090	.01229	1498.10001	.92026
4.500	3.000	.00117	-.92219	-.04403	.59668	.01011	1498.39999	.91903
4.500	4.000	-.00235	-.91930	-.04222	.60162	.00820	1498.30000	.92009
4.500	5.000	-.00731	-.91666	-.03991	.60481	.00694	1498.39999	.91973
4.500	6.000	-.01020	-.91371	-.03776	.60713	.00603	1497.89999	.92037
4.500	7.000	-.01194	-.91294	-.03528	.61116	.00497	1498.50000	.91691
4.500	8.000	-.01230	-.91154	-.03289	.61426	.00413	1498.70000	.92181
4.500	9.000	-.01288	-.90979	-.03089	.61691	.00385	1499.20000	.92182
4.500	10.000	-.01168	-.90717	-.02824	.61821	.00468	1499.10001	.91973
GRADIENT		.00021	.00336	.00014	.00330	-.00121	.07346	.00002

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(STL081) (18 APR 74)

ABDC VA-422(1A-57), CRB/ET W/BOOTH SRB

REFERENCE DATA

SRP = 2890.0000 SQ. FT. XMRP = 1167.0000 IN. X2
 LREF = 1290.3000 IN. YMRP = .0000 IN. Y3
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOS = 3.300 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 48/ 0 RV/L = 1.85 GRADIENT INTERVAL = -.500/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.17219	-.93528	-.04113	.68845	.01835	1502.70000	.92183
4.500	-9.000	-.16628	-.93426	-.04213	.64790	.01879	1502.70000	.92363
4.500	-8.000	-.16059	-.93350	-.04334	.63797	.01988	1502.60000	.92583
4.500	-7.000	-.15923	-.93370	-.04409	.62805	.01995	1502.60000	.92314
4.500	-6.000	-.15753	-.93425	-.04420	.62051	.01941	1502.00000	.92290
4.500	-5.000	-.15208	-.93632	-.04409	.61312	.01787	1501.39999	.92172
4.500	-4.000	-.15086	-.93705	-.04495	.60892	.01713	1501.20000	.92449
4.500	-3.000	-.14795	-.93744	-.04584	.60168	.01697	1500.89999	.92261
4.500	-2.000	-.14457	-.93796	-.04616	.59313	.01717	1500.20000	.92284
4.500	-1.000	-.14298	-.93938	-.04574	.58499	.01737	1500.50000	.92238
4.500	.000	-.14413	-.94000	-.04519	.57787	.01777	1500.00000	.92298
4.500	1.000	-.14582	-.94274	-.04466	.57104	.01796	1499.89999	.92392
4.500	2.000	-.14729	-.94483	-.04467	.56482	.01843	1500.30000	.92070
4.500	3.000	-.14829	-.94502	-.04534	.55888	.01885	1499.60001	.92342
4.500	4.000	-.14684	-.94490	-.04612	.55348	.01920	1499.30000	.92291
4.500	5.000	-.14798	-.94528	-.04674	.54801	.01909	1499.30000	.92193
4.500	6.000	-.14560	-.94565	-.04674	.54339	.01834	1499.00000	.92134
4.500	7.000	-.14218	-.94642	-.04647	.53992	.01735	1499.10001	.92231
4.500	8.000	-.14000	-.94793	-.04576	.53633	.01636	1499.80000	.92318
4.500	9.000	-.13621	-.94916	-.04484	.53207	.01591	1500.39999	.92389
4.500	10.000	-.13622	-.95179	-.04334	.52303	.01624	1500.10001	.91991
	GRADIENT	.00023	-.00103	-.00012	-.00688	.00021	-.20364	-.00006



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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(STL082) (18 APR 74)

REFERENCE DATA

SRP = 2890.0000 90. FT. YMRP = 1167.0000 IN. XS
 LRP = 1290.3000 IN. YMRP = .0000 IN. YS
 SRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP08 = 3.300 RV/L = 2.090
 PT-JET = 1900.000 BETA = .000

RUN NO. 44/ 0 RV/L = 2.22 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CT	CYN	PCL	MTL
4.510	-10.000	.00111	-.83961	-.04370	.48944	.01831	1900.30000	.93045
4.510	-9.000	.00169	-.83434	-.04337	.48992	.01865	1900.30000	.93130
4.510	-8.000	.00212	-.83015	-.04269	.48753	.01872	1499.80000	.93039
4.510	-7.000	.00196	-.82333	-.04179	.48661	.01831	1499.80000	.93185
4.510	-6.000	.00132	-.82054	-.04093	.48502	.01852	1499.80000	.93157
4.510	-5.000	.00046	-.81585	-.04015	.48378	.01867	1499.80000	.93232
4.510	-4.000	.00017	-.81022	-.03972	.48356	.01890	1499.80000	.93120
4.510	-3.000	.00104	-.80460	-.03945	.48395	.01923	1499.80000	.93220
4.510	-2.000	.00136	-.79736	-.03966	.48460	.01901	1499.80000	.93099
4.510	-1.000	.00396	-.78976	-.04035	.48741	.01773	1499.80000	.93199
4.510	.000	.00379	-.78319	-.04117	.49174	.01577	1499.80000	.93212
4.510	1.000	.00219	-.78022	-.04077	.49684	.01384	1499.80000	.93346
4.510	2.000	.00110	-.77888	-.03950	.50193	.01221	1900.39999	.93393
4.510	3.000	.00260	-.77614	-.03803	.50697	.01028	1901.39999	.93223
4.510	4.000	.00045	-.77344	-.03630	.51229	.00838	1901.10000	.93235
4.510	5.000	.00936	-.77131	-.03405	.51616	.00691	1901.50000	.93006
4.510	6.000	.02359	-.76944	-.03137	.51875	.00584	1900.39999	.93153
4.510	7.000	.02225	-.76723	-.02894	.52035	.00556	1499.89999	.93070
4.510	8.000	.02541	-.76576	-.02648	.52034	.00642	1900.20000	.93296
4.510	9.000	.02899	-.76299	-.02438	.51895	.00620	1900.30000	.93682
4.510	10.000	.02956	-.75918	-.02333	.51535	.01069	1903.30000	.93741
	GRADIENT	-.00044	.00455	.00044	.00355	-.00132	.24455	.00001

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AEDC VA-422(1A-57), ORB/ET W/BOTH SRS

(STUDIOS) (18 APR 76)

REFERENCE DATA

SREP = 2880.0000 SQ.FT. XREP = 1107.0000 IN. X5
 YREP = 1290.3000 IN. YREP = .0000 IN. Y5
 WREP = 1290.3000 IN. ZREP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRBPOB = 3.300 RV/L = 2.000
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 45/ 0 RV/L = 2.23 GRADIENT INTERVAL = -.00/ 5.00

MACH	BETA	ALPHA	ON	CLN	CT	CYN	POL	MPL
4.510	-10.000	-.23790	-.77815	-.03547	.57279	.01368	1496.60001	.93029
4.510	-9.000	-.25352	-.77903	-.03630	.56393	.01369	1499.39999	.93012
4.510	-8.000	-.24927	-.77761	-.03791	.55394	.01426	1499.20000	.93003
4.510	-7.000	-.24033	-.77774	-.03894	.54370	.01502	1499.60001	.92969
4.510	-6.000	-.23099	-.77928	-.03912	.53634	.01491	1500.30000	.92901
4.510	-5.000	-.22150	-.78142	-.03889	.53049	.01403	1501.80000	.93113
4.510	-4.000	-.21288	-.78256	-.03947	.52331	.01379	1502.39999	.92880
4.510	-3.000	-.20743	-.78357	-.04046	.51479	.01432	1502.00000	.92776
4.510	-2.000	-.20436	-.78357	-.04113	.50480	.01552	1501.70000	.92712
4.510	-1.000	-.20577	-.78599	-.04113	.49324	.01693	1502.00000	.92985
4.510	.000	-.20666	-.78748	-.04071	.48690	.01769	1502.10001	.92636
4.510	1.000	-.20773	-.78834	-.04060	.47937	.01850	1502.00000	.92927
4.510	2.000	-.21729	-.78935	-.04095	.47193	.01956	1502.10001	.92863
4.510	3.000	-.22429	-.79008	-.04152	.46534	.02024	1502.00000	.92877
4.510	4.000	-.22173	-.79125	-.04170	.45946	.02003	1502.20000	.92826
4.510	5.000	-.21440	-.79217	-.04179	.45303	.01956	1502.50000	.92882
4.510	6.000	-.21193	-.79272	-.04157	.44845	.01934	1502.70000	.93032
4.510	7.000	-.20720	-.79396	-.04117	.44380	.01777	1504.00000	.93074
4.510	8.000	-.20713	-.79596	-.04039	.44380	.01652	1504.39999	.92985
4.510	9.000	-.20970	-.79826	-.03915	.44061	.01619	1503.00000	.93102
4.510	10.000	-.21276	-.80187	-.03763	.43297	.01690	1503.30000	.92914
	GRADIENT	-.00071	-.00113	-.00323	-.00765	.00073	.03182	-.00003

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AEDC VA-422(1A-37), ORB/ET W/BOOTH 8818

(87LD84) (18 APR 74)

REFERENCE DATA

WPT = 2890.0000 80.FT. XMRP = 1167.0000 IN. XS
LWPT = 1290.3000 IN. YMRP = .0000 IN. YS
WPT = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-808 = 1.000 R-808 = 2.000
SR8PC8 = 1.200 RW/L = 1.780
PT-JET = .000 BETA = .000

RUN NO. 20V 0 RW/L = 1.87 GRADIENT INTERVAL = -5.00V 5.00

MACH	ALPHA	BETA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-.02839	-.10499	-.00804	.03693	.01226	-.16978	.00000
4.500	-9.000	-.02506	-.09485	-.00750	.03728	.01138	-.16578	.00000
4.500	-8.000	-.02368	-.08482	-.00688	.03718	.01022	-.15846	.00000
4.500	-7.000	-.02277	-.07532	-.00646	.03667	.00909	-.16378	.00000
4.500	-6.000	-.02153	-.06634	-.00622	.03631	.00819	-.16378	.00000
4.500	-5.000	-.02061	-.05751	-.00595	.03645	.00752	-.16615	.00000
4.500	-4.000	-.01989	-.04931	-.00570	.03573	.00719	-.16210	.00000
4.500	-3.000	-.01956	-.04151	-.00533	.03517	.00689	-.16378	.00000
4.500	-2.000	-.01943	-.03464	-.00484	.03434	.00672	-.16378	.00000
4.500	-1.000	-.01975	-.02792	-.00427	.03412	.00659	-.16378	.00000
4.500	.000	-.02002	-.02212	-.00372	.03416	.00680	-.16378	.00000
4.500	1.000	-.02050	-.01615	-.00315	.03485	.00628	-.16378	.00000
4.500	2.000	-.02098	-.01157	-.00202	.03540	.00603	-.14211	.00000
4.500	3.000	-.02011	-.00695	-.00097	.03603	.00562	-.16378	.00000
4.500	4.000	-.02037	-.00276	-.00013	.03738	.00496	-.16322	.00000
4.500	5.000	-.02106	.00153	.00053	.03549	.00418	-.17333	.00000
4.500	6.000	-.02220	.00626	.00112	.04218	.00318	-.19146	.00000
4.500	7.000	-.02362	.01135	.00192	.04516	.00243	-.17941	.00000
4.500	8.000	-.02290	.01701	.00236	.04754	.00207	-.19408	.00000
4.500	9.000	-.02333	.02272	.00299	.05030	.00132	-.16378	.00000
4.500	10.000	-.02349	.02983	.00337	.05209	.00081	-.16378	.00000
4.500	GRADIENT	-.00008	.00385	.00068	.00723	-.00028	.00097	.00000

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AEDC VA-422(11A-57), CRUJET W/BOTH SRS

(STL003) (16 APR 74)

REFERENCE DATA

REF = 2000.0000 IN. FT. 10000 = 1167.0000 IN. X8
 UNIF = 1290.3000 IN. YMRP = .0000 IN. Y8
 SREF = 1290.3000 IN. ZMRP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 1.000 R-SRS = 2.000
 SRS-OS = 1.200 RV/L = 1.700
 PT-JET = .000 ALPHA = .000

RUN NO. 21/ 0 RV/L = 1.87 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLH	CY	CYN	PC	MTL
4.500	-10.000	-.14133	-.01800	-.00701	.00015	.00025	-.54568	.00000
4.500	-9.000	-.13532	-.02048	-.00681	.07649	.01693	-.53880	.00000
4.500	-8.000	-.12894	-.02279	-.00644	.07110	.01908	-.45437	.00000
4.500	-7.000	-.12292	-.02307	-.00634	.06617	.01698	-.53191	.00000
4.500	-6.000	-.11659	-.02315	-.00572	.06103	.01599	-.43262	.00000
4.500	-5.000	-.11163	-.02328	-.00529	.05616	.01393	-.52842	.00000
4.500	-4.000	-.10850	-.02328	-.00475	.05173	.01203	-.48199	.00000
4.500	-3.000	-.10311	-.02632	-.00427	.04633	.01049	-.54768	.00000
4.500	-2.000	-.10100	-.02645	-.00411	.04237	.00919	-.53890	.00000
4.500	-1.000	-.09802	-.02649	-.00396	.03812	.00766	-.55729	.00000
4.500	.000	-.09537	-.02659	-.00370	.03399	.00668	-.55880	.00000
4.500	1.000	-.09193	-.02733	-.00332	.02863	.00546	-.55988	.00000
4.500	2.000	-.08936	-.02807	-.00272	.02483	.00403	-.53400	.00000
4.500	3.000	-.08737	-.02910	-.00212	.02119	.00272	-.51922	.00000
4.500	4.000	-.08592	-.03038	-.00140	.01760	.00148	-.48098	.00000
4.500	5.000	-.08403	-.03270	-.00041	.01369	.00043	-.54723	.00000
4.500	6.000	-.08646	-.03406	.00033	.00938	-.00073	-.55880	.00000
4.500	7.000	-.06699	-.03590	.00112	.00476	-.00163	-.54767	.00000
4.500	8.000	-.06733	-.03767	.00207	.00002	-.00273	-.55880	.00000
4.500	9.000	-.06797	-.03924	.00293	-.00363	-.00368	-.55220	.00000
4.500	10.000	-.06872	-.04091	.00414	-.00900	-.00900	-.53987	.00000
4.500	GRADIENT	.00273	-.00064	.00043	-.00427	-.00132	-.00029	.00000

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AEDC VA-422(1A-57), CRG/ET W/BOIM 880

(STL080) (16 APR 74)

REFERENCE DATA

REF = 2000.0000 SQ. FT. XPRP = 1107.0000 IN. X8
 LREF = 1250.3000 IN. YPRP = .0000 IN. Y5
 RREF = 1250.3000 IN. ZPRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-878 = 1.000 R-878 = 2.000
 SKEW8 = 1.200 TRVL = 1.780
 PT-JET = 750.000 BETA = .000

RUN NO. 16/ 0 RVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	BETA	ON	CLM	CV	CYN	POL	MTL
4.900	-10.000	.09138	-.52338	-.02913	.28281	.02314	744.42000	.44332
4.900	-9.000	.09084	-.51871	-.02925	.28281	.02320	744.30000	.44490
4.900	-8.000	.08931	-.51214	-.02946	.28273	.02341	744.24000	.44512
4.900	-7.000	.08928	-.50599	-.02973	.28222	.02375	744.47000	.44593
4.900	-6.000	.09324	-.50122	-.02937	.28169	.02396	744.69000	.44556
4.900	-5.000	.09336	-.49606	-.02928	.28108	.02403	744.78000	.44580
4.900	-4.000	.09308	-.49143	-.02871	.28042	.02443	744.98000	.44583
4.900	-3.000	.09804	-.48690	-.02787	.28024	.02461	745.17000	.44594
4.900	-2.000	.09641	-.48303	-.02692	.27944	.02454	744.98000	.44438
4.900	-1.000	.09064	-.48071	-.02506	.27924	.02477	745.32000	.44536
4.900	.000	.09674	-.47908	-.02290	.28008	.02477	745.05000	.44571
4.900	1.000	.09328	-.47652	-.02083	.28262	.02411	745.26000	.44568
4.900	2.000	.08773	-.47390	-.01881	.28660	.02299	745.28000	.44618
4.900	3.000	.08558	-.46888	-.01750	.29022	.02198	745.11000	.44608
4.900	4.000	.08470	-.46531	-.01577	.29368	.02131	745.03000	.44607
4.900	5.000	.08389	-.46025	-.01442	.29746	.02081	745.15000	.44585
4.900	6.000	.08327	-.45498	-.01335	.30206	.01935	745.23000	.44537
4.900	7.000	.08279	-.45065	-.01179	.30912	.01796	745.25000	.44633
4.900	8.000	.08244	-.44627	-.01096	.31733	.01489	745.25000	.44585
4.900	9.000	.08443	-.44031	-.01026	.32216	.01394	745.28000	.44555
4.900	10.000	.08729	-.43515	-.00974	.32507	.01357	745.19000	.44631
GRADIENT		-.00139	.00328	.00162	.00166	-.00037	.02282	.00003

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(87L067) (16 APR 74)

REFERENCE DATA

SRFP = 2000.0000 SQ.FT. 10MRP = 1167.0000 IN. YS
 JREF = 1290.3000 IN. YMRP = .0000 IN. YS
 SRFP = 1290.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 2.000
 SRFP08 = 1.200 RNV/L = 1.780
 PT-JET = 750.000 ALPHA = .000

RUN NO. 17 J RNV/L = 1.86 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CV	CYN	POL	MTL
4.500	-10.000	-.16149	-.48329	-.03152	.34648	.04232	752.97000	.45192
4.500	-9.000	-.15318	-.48553	-.02985	.34264	.03922	753.16000	.45141
4.500	-8.000	-.15133	-.48925	-.02962	.33476	.03625	753.19000	.45183
4.500	-7.000	-.14585	-.48989	-.02792	.32392	.03436	753.98000	.45206
4.500	-6.000	-.14160	-.49043	-.02587	.31653	.03263	752.87000	.45188
4.500	-5.000	-.13619	-.49041	-.02474	.30831	.03156	752.89000	.45239
4.500	-4.000	-.13629	-.48967	-.02419	.30203	.02990	752.90000	.45199
4.500	-3.000	-.13523	-.48930	-.02395	.29609	.02840	752.92000	.45207
4.500	-2.000	-.13559	-.48953	-.02406	.29041	.02712	752.93000	.45196
4.500	-1.000	-.13639	-.48735	-.02431	.28490	.02581	753.01000	.45116
4.500	.000	-.14999	-.48503	-.02467	.28045	.02475	753.16000	.45193
4.500	1.000	-.15230	-.48416	-.02403	.27709	.02297	753.09000	.45167
4.500	2.000	-.15311	-.48540	-.02506	.27328	.02175	753.07000	.45239
4.500	3.000	-.16286	-.48624	-.02235	.26932	.02034	753.07000	.45190
4.500	4.000	-.17023	-.48766	-.02196	.26538	.01922	753.20000	.45224
4.500	5.000	-.17676	-.48859	-.02203	.26059	.01751	753.34000	.45163
4.500	6.000	-.18280	-.48933	-.02192	.25660	.01623	753.33000	.45226
4.500	7.000	-.18899	-.49006	-.02170	.25330	.01493	753.37000	.45228
4.500	8.000	-.19421	-.49263	-.02120	.24941	.01369	753.41000	.45234
4.500	9.000	-.20024	-.49479	-.02072	.24637	.01280	753.46000	.45239
4.500	10.000	-.20956	-.49712	-.01988	.24331	.01180	753.59000	.45149
	GRADIENT	-.00419	.00033	.00027	-.00482	-.00136	.03836	-.03300

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AEDC VA-422(11A-37), CRUJET W/BOOM 808

(STL088) (16 APR 74)

REFERENCE DATA

REF = 2690.0000 80.FT. XARP = 1167.0000 IN. XS
 LREF = 1290.3000 IN. YARP = .0000 IN. YS
 SREF = 1290.3000 IN. ZARP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 2.000
 SRBPOS = 1.200 RWL = 1.760
 PT-JET = 1900.000 BETA = .000

RUN NO. 18/ 0 RVL = 1.67 GRADIENT INTERVAL = -.9.00/ 5.00

MACH	ALPHA	BETA	ON	QUN	CY	CYN	PCL	MTL
4.500	-10.000	.23586	-.98428	-.04943	.54318	.04091	1522.00000	.94943
4.500	-9.000	.23573	-.97953	-.04843	.54903	.04130	1522.10001	.92406
4.500	-8.000	.23801	-.97507	-.04505	.54446	.04142	1522.70000	.92330
4.500	-7.000	.23593	-.97013	-.04619	.54350	.04108	1523.10001	.92343
4.500	-6.000	.23487	-.96421	-.04717	.54169	.04050	1522.80000	.92431
4.500	-5.000	.22945	-.95779	-.04600	.53924	.03985	1522.89999	.92329
4.500	-4.000	.22331	-.95253	-.04491	.53697	.03931	1522.70000	.92457
4.500	-3.000	.22331	-.94796	-.04393	.53374	.03933	1522.50000	.92476
4.500	-2.000	.22264	-.94325	-.04237	.53490	.03902	1523.00000	.92393
4.500	-1.000	.22329	-.93865	-.04135	.53525	.03866	1523.39999	.92378
4.500	.000	.22788	-.93470	-.04040	.53579	.03818	1523.50000	.92441
4.500	1.000	.23122	-.93079	-.03860	.53623	.03768	1523.80000	.92448
4.500	2.000	.23506	-.92637	-.03783	.53830	.03699	1524.10001	.92335
4.500	3.000	.23246	-.92333	-.03681	.54263	.03623	1525.30000	.92393
4.500	4.000	.22521	-.91924	-.03462	.54710	.03555	1525.20000	.92799
4.500	5.000	.21377	-.91468	-.03336	.55042	.03531	1526.30000	.92736
4.500	6.000	.20020	-.90972	-.03197	.55442	.03517	1526.50000	.92701
4.500	7.000	.18796	-.90341	-.03028	.55762	.03451	1526.10001	.92506
4.500	8.000	.17603	-.89696	-.02898	.56068	.03361	1525.70000	.92457
4.500	9.000	.17131	-.89131	-.02745	.56460	.03194	1525.50000	.92616
4.500	10.500	.16545	-.88700	-.02536	.56909	.03006	1525.39999	.92686
GRADIENT		-.00012	.00422	.00129	.00114	-.00047	.34345	.00020

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AEDC VA-422(1A-57), ORB/ET W/BOTH SRS

(STL008) (18 APR 74)

REFERENCE DATA

SREP = 2880.0000 SQ. FT.
 LREF = 1290.3000 IN.
 BREF = 1290.3000 IN.
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 2.000
 SRBPOS = 1.200 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 18/ 0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	PCL	MTL
4.500	-10.000	-21058	-91431	-03541	.38339	.03159	1515.60001	.92502
4.500	-9.000	-21237	-91779	-03583	.38235	.03189	1515.50000	.92481
4.500	-8.000	-21657	-92036	-03533	.37930	.03186	1514.20000	.92701
4.500	-7.000	-22762	-92519	-03414	.37671	.03108	1514.00000	.92683
4.500	-6.000	-23938	-92896	-03299	.37329	.04387	1513.80000	.92624
4.500	-5.000	-24843	-93123	-03185	.36833	.04867	1513.70000	.92590
4.500	-4.000	-24774	-93206	-03100	.36270	.04637	1514.39999	.92534
4.500	-3.000	-24875	-93229	-04890	.35499	.04433	1513.70000	.92604
4.500	-2.000	-24878	-93371	-04571	.34673	.04222	1514.20000	.92971
4.500	.000	-2.45000	-93416	-04243	.33818	.03997	1514.10001	.92460
4.500	1.000	-23967	-93263	-03983	.32712	.03461	1513.80000	.92879
4.500	2.000	-24848	-93478	-04032	.32462	.03305	1515.00000	.92846
4.500	3.000	-26064	-93673	-04029	.32006	.03173	1515.50000	.92661
4.500	4.000	-26401	-93813	-03843	.31406	.03021	1515.70000	.92746
4.500	5.000	-27000	-93963	-03682	.30728	.02870	1515.50000	.92599
4.500	6.000	-27533	-94064	-03841	.30156	.02703	1515.50000	.92784
4.500	7.000	-26840	-94210	-03810	.29721	.02539	1515.80000	.92721
4.500	8.000	-26071	-94376	-03750	.29326	.02383	1515.80000	.92807
4.500	9.000	-25981	-94557	-03635	.28900	.02233	1515.80000	.92723
4.500	10.000	-26438	-94685	-03570	.28639	.02064	1516.20000	.92686
GRADIENT		.00014	-.00073	.00140	-.00604	-.00206	.18770	.00006

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AEDC VA-422(11A-57), CRG/ET W/BOOM 2878

(187L070) (18 APR 74)

REFERENCE DATA

REF = 2000.0000 90.FT. YARP = 1167.0000 IN. X8
 LREF = 1200.3000 IN. YARP = .0000 IN. Y5
 RREF = 1200.3000 IN. ZARP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 1.000
 SRP08 = 2.100 RW/L = 1.700
 PT-JET = .000 BETA = .000

RUN NO. 36/ 3 RVL = 1.06 GRADIENT INTERVAL = -8.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CT	CYN	PCL	MTL
4.500	-10.000	.03068	-.07111	-.01117	.02341	.00378	-1.12530	.00000
4.500	-9.500	.03032	-.06415	-.00981	.02252	.00312	-1.09930	.00000
4.500	-8.000	.02983	-.05762	-.00819	.01943	.00448	-1.10660	.00000
4.500	-7.000	.02930	-.05146	-.00660	.01684	.00394	-1.14520	.00000
4.500	-6.000	.02892	-.04568	-.00515	.01264	.00359	-1.10010	.00000
4.500	-5.000	.02801	-.03851	-.00414	.00914	.00337	-1.11830	.00000
4.500	-4.000	.02768	-.03227	-.00295	.00539	.00338	-1.14575	.00000
4.500	-3.000	.02762	-.02536	-.00157	.00051	.00412	-1.10910	.00000
4.500	-2.000	.02848	-.02148	-.00034	-.00416	.00324	-1.13320	.00000
4.500	-1.000	.02920	-.01647	.00102	-.00812	.00634	-1.10750	.00000
4.500	.000	.02977	-.01335	.00242	-.01037	.00736	-1.13320	.00000
4.500	1.000	.03088	-.00964	.00391	-.01162	.00796	-1.11770	.00000
4.500	2.000	.03196	-.00526	.00508	-.01096	.00819	-1.09010	.00000
4.500	3.000	.03347	-.00029	.00612	-.00891	.00814	-1.11910	.00000
4.500	4.000	.03543	.00486	.00730	-.00558	.00778	-1.13010	.00000
4.500	5.000	.03795	.01058	.00788	-.00192	.00726	-1.13960	.00000
4.500	6.000	.04018	.02362	.00879	.00155	.00700	-1.14760	.00000
4.500	7.000	.04222	.02362	.00975	.00428	.00700	-1.14830	.00000
4.500	8.000	.04361	.03085	.01069	.00781	.00698	-1.11920	.00000
4.500	9.000	.04538	.03810	.01181	.01117	.00729	-1.06990	.00000
4.500	10.000	.04696	.04563	.01311	.01315	.00792	-1.14550	.00000
4.500	GRADIENT	.00096	.00466	.00124	-.00131	.00051	.00024	.00000

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AEDC VA-422(1A-37), CRB/ET W/BOTH 2878

(871071) (16 APR 74)

REFERENCE DATA

87E7 = 2690.0000 SQ. FT. 10RFP = 1107.0000 IN. X5
 11E7 = 1290.3000 IN. 11RFP = .0000 IN. Y5
 97E7 = 1290.3000 IN. 24RFP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-923 = 2.000 R-923 = 1.300
 SP206 = 2.100 PW/L = 1.700
 PT-JET = .500 ALPHA = .500

RUN NO. 37/ 0 RW/L = 1.06 GRADIENT INTERVAL = -.5.00/ 3.00

MACH	BETA	ALPHA	ON	QJH	CV	CYN	PCJ	MTL
4.500	-10.000	-1.4082	.00158	-.00327	.00762	.00333	-1.13140	.00000
4.500	-9.000	-.13393	.00159	-.00336	.00773	.00332	-1.10440	.00000
4.500	-8.000	-.12782	.00069	-.00340	.00766	.00308	-1.12160	.00000
4.500	-7.000	-.12163	-.00098	-.00466	.00663	.00331	-1.09423	.00000
4.500	-6.000	-.11574	-.00282	-.00392	.00326	.00342	-1.07410	.00000
4.500	-5.000	-.11136	-.00472	-.00301	.00343	.00353	-1.07770	.00000
4.500	-4.000	-.10630	-.00644	-.00215	.00066	.00390	-1.12340	.00000
4.500	-3.000	-.10213	-.00843	-.00115	-.00210	.00630	-1.12610	.00000
4.500	-2.000	-.09871	-.01117	-.00001	-.00491	.00633	-1.14030	.00000
4.500	-1.000	-.09456	-.01331	.00077	-.00733	.00669	-1.03700	.00000
4.500	.000	-.09154	-.01590	.00136	-.00931	.00699	-1.01950	.00000
4.500	1.000	-.08943	-.01756	.00191	-.01107	.00674	-1.10690	.00000
4.500	2.000	-.08786	-.01994	.00271	-.01373	.00698	-1.03750	.00000
4.500	3.000	-.08667	-.02210	.00334	-.01623	.00702	-1.07270	.00000
4.500	4.000	-.08481	-.02460	.00460	-.01969	.00728	-1.06700	.00000
4.500	5.000	-.08497	-.02715	.00373	-.02236	.00740	-1.08830	.00000
4.500	6.000	-.08719	-.03014	.00703	-.02417	.00728	-1.13320	.00000
4.500	7.000	-.08838	-.03253	.00817	-.02631	.00723	-1.12790	.00000
4.500	8.000	-.08854	-.03571	.00913	-.02832	.00723	-1.11810	.00000
4.500	9.000	-.08891	-.03877	.01020	-.03048	.00732	-1.03250	.00000
4.500	10.000	-.08972	-.04167	.01121	-.03296	.00781	-1.10300	.00000
4.500	GRADIENT	.00248	-.00223	.00082	-.00248	.00016	.00431	.00000

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AEDC VA-422(11A-37), CRGJET W/BOTH SRS

(181072) (18 APR 74)

REFERENCE DATA

YREF = 2000.0000 SQ.FT. XGRP = 1107.0000 IN. X5
 YREF = 1200.0000 IN. YGRP = .0000 IN. Y5
 ZREF = 1200.0000 IN. ZGRP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 1.000
 SRSPOS = 2.100 RWL = 1.700
 PT-JET = 1500.000 BETA = .000

RUN NO. 39/ 0 RWL = 1.00 GRADIENT INTERVAL = -.5.00/ 5.00

WAOH	ALPHA	BETA	ON	OLH	CT	CTN	PCL	MTL
4.500	-10.000	-.1959	-.91031	-.03932	.50769	.01587	1504.10000	.92993
4.500	-9.000	-.19723	-.90757	-.03776	.50750	.01585	1504.00000	.92813
4.500	-8.000	-.19766	-.90491	-.03639	.50679	.01546	1504.20000	.93296
4.500	-7.000	-.19668	-.90209	-.03506	.50594	.01530	1503.50000	.93140
4.500	-6.000	-.19553	-.89941	-.03383	.50486	.01496	1503.89999	.93057
4.500	-5.000	-.19523	-.89661	-.03192	.50308	.01475	1503.00000	.93034
4.500	-4.000	-.19002	-.89341	-.02931	.50121	.01411	1503.30000	.93190
4.500	-3.000	-.17538	-.89120	-.02768	.50067	.01385	1503.60000	.92953
4.500	-2.000	-.17033	-.88855	-.02636	.50102	.01361	1503.70000	.92925
4.500	-1.000	-.16883	-.88489	-.02544	.50130	.01371	1503.80000	.92534
4.500	.000	-.16972	-.88144	-.02500	.50217	.01366	1503.39999	.92919
4.500	1.000	-.17207	-.87942	-.02487	.50334	.01390	1503.20000	.92975
4.500	2.000	-.16310	-.87747	-.02483	.50463	.01429	1506.10000	.92946
4.500	3.000	-.15070	-.87356	-.02480	.50343	.01493	1503.39999	.92967
4.500	4.000	-.13499	-.87275	-.02429	.50622	.01530	1503.00000	.92903
4.500	5.000	-.11823	-.86949	-.02393	.50692	.01554	1504.99999	.92971
4.500	6.000	-.10519	-.86658	-.02333	.50647	.01611	1503.80000	.93175
4.500	7.000	-.09620	-.86308	-.02236	.50924	.01683	1506.30000	.92996
4.500	8.000	-.08982	-.85928	-.02112	.51072	.01773	1506.70000	.93046
4.500	9.000	-.08232	-.85543	-.01939	.51376	.01831	1507.30000	.92930
4.500	10.000	-.07575	-.84954	-.01747	.51779	.01902	1506.00000	.92751
		.00555	.00266	.00066	.00037	.00012	-.14536	-.00013

GRADIENT

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AEDC VA-422(1A-57), CRB/E: W/BOTH SRB

(87L973) (18 APR 74)

REFERENCE DATA

SRP = 2650,0000 50.FT. YMRP = 1167,0000 IN. XS
 LREF = 1250,3000 IN. YMRP = .0000 IN. YS
 SRP = 1250,3000 IN. ZMRP = 400,0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2,000 R-SRB = 1,000
 SRP06 = 2,100 RV/L = 1,760
 PT-JET = 1500,000 ALPHA = .000

RUN NO. 38/ 0		RV/L = 1.86		GRADIENT INTERVAL = -5.00/ 5.00				
MAOH	BETA	ALPHA	ON	CLM	CY	CYN	PCL	ITL
4.500	-10.000	-.33542	-.88004	-.02378	.49345	.01107	1503.20000	.93012
4.500	-9.000	-.32806	-.87952	-.02544	.49307	.01105	1504.39999	.92779
4.500	-8.000	-.32140	-.87944	-.02512	.49496	.01113	1504.00000	.92859
4.500	-7.000	-.31282	-.88017	-.02478	.49388	.01129	1504.80000	.92922
4.500	-6.000	-.30082	-.87996	-.02443	.49679	.01145	1504.89999	.92908
4.500	-5.000	-.28176	-.88049	-.02448	.49833	.01216	1504.80000	.92711
4.500	-4.000	-.26250	-.87978	-.02511	.49896	.01262	1504.80000	.93016
4.500	-3.000	-.24359	-.88001	-.02513	.50067	.01231	1504.50000	.92568
4.500	-2.000	-.22751	-.88021	-.02524	.50132	.01233	1503.30000	.92882
4.500	-1.000	-.21371	-.88278	-.02562	.50042	.01325	1502.89999	.92798
4.500	.000	-.20753	-.88593	-.02620	.49929	.01445	1502.80000	.92760
4.500	1.000	-.20249	-.88804	-.02714	.49830	.01544	1502.39999	.92891
4.500	2.000	-.22699	-.88960	-.02882	.49929	.01553	1502.50000	.92904
4.500	3.000	-.20615	-.89042	-.03044	.49992	.01528	1502.50000	.92863
4.500	4.000	-.18743	-.89064	-.03075	.49753	.01498	1502.30000	.92784
4.500	5.000	-.17614	-.89029	-.03039	.49380	.01501	1502.10001	.92872
4.500	6.000	-.16816	-.89042	-.02980	.48968	.01594	1502.30000	.92883
4.500	7.000	-.16691	-.89199	-.02911	.48557	.01718	1502.30000	.92800
4.500	8.000	-.16789	-.89352	-.02829	.48148	.01789	1502.10001	.92902
4.500	9.000	-.16555	-.89388	-.02781	.47831	.01814	1502.39999	.92850
4.500	10.000	-.16142	-.89803	-.02748	.47560	.01818	1502.20000	.93069
	GRADIENT	.01024	-.00134	-.00070	-.00033	.00037	-.28727	.00011

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB

(87L074) (18 APR 74)

REFERENCE DATA

SRP = 2000.0000 SQ. FT. YMRP = 1167.0000 IN. YS
 LREF = 1250.3000 IN. YMRP = .0000 IN. YS
 BRP = 1250.3000 IN. ZMRP = 400.0000 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 2.000 R-SRB = 3.000
 SRBPOB = 2.300 RNV/L = 1.700
 PT-JET = .000 BETA = .000

RUN NO. 40/ 0 RNV/L = 1.86 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	BETA	ON	CLM	CV	CIN	PCL	MPL
4.500	-10.000	.01639	-.14706	-.00396	.07928	.00501	-.99288	.00000
4.500	-9.000	.01554	-.13628	-.00381	.07884	.00439	-1.01060	.00000
4.500	-8.000	.01514	-.12541	-.00361	.07817	.00382	-1.00710	.00000
4.500	-7.000	.01482	-.11443	-.00404	.07698	.00375	-1.01060	.00000
4.500	-6.000	.01426	-.10378	-.00431	.07574	.00384	-1.01060	.00000
4.500	-5.000	.01334	-.09327	-.00492	.07456	.00381	-.99563	.00000
4.500	-4.000	.01216	-.08374	-.00496	.07340	.00332	-.99662	.00000
4.500	-3.000	.01131	-.07363	-.00452	.07231	.00331	-1.01060	.00000
4.500	-2.000	.01017	-.06773	-.00400	.07235	.00263	-1.01060	.00000
4.500	-1.000	.00910	-.06049	-.00326	.07215	.00204	-1.00610	.00000
4.500	.000	.00779	-.05324	-.00251	.07214	.00118	-.99750	.00000
4.500	1.000	.00651	-.04644	-.00175	.07139	.00096	-1.01060	.00000
4.500	2.000	.00568	-.04002	-.00068	.07146	.00008	-1.01060	.00000
4.500	3.000	.00513	-.03409	-.00008	.07106	-.00038	-1.01200	.00000
4.500	4.000	.00463	-.02844	.00063	.07083	-.00117	-1.01060	.00000
4.500	5.000	.00432	-.02319	.00176	.07055	-.00196	-1.03380	.00000
4.500	6.000	.00461	-.01822	.00241	.07035	-.00263	-.96911	.00000
4.500	7.000	.00503	-.01319	.00316	.07032	-.00320	-1.02030	.00000
4.500	8.000	.00507	-.00799	.00400	.07010	-.00337	-.96116	.00000
4.500	9.000	.00346	-.00263	.00477	.06844	-.00314	-1.01060	.00000
4.500	10.000	.00194	.00366	.00311	.06582	-.00212	-1.01060	.00000
	GRADIENT	-.00096	.00696	.00071	-.00034	-.00060	-.00231	.00000

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AEDC VA-422(11A-57), CRIB/ET W/BOTH SRS

(STL075) (16 APR 74)

REFERENCE DATA

SREF = 2690.0000 90.FT. YMRP
 LREF = 1290.3000 IN. YMRP
 SREF = 1290.3000 IN. ZMRP
 SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 3.000
 SRSPOS = 2.500 RM/L = 1.760
 PT-JET = .000 ALPHA = .000

RUN NO.	41/ 0	RM/L = 1.84	GRADIENT INTERVAL = -3.00/ 5.00	
BETA	ALPHA	ON	CLM	CY
-10.000	-.13930	-.06346	-.00439	.16635
-9.000	-.13204	-.06413	-.00433	.15390
-8.000	-.12395	-.06230	-.00434	.14155
-7.000	-.11710	-.06111	-.00436	.13062
-6.000	-.11024	-.05982	-.00425	.12124
-5.000	-.10637	-.05861	-.00424	.11169
-4.000	-.10198	-.05737	-.00420	.10238
-3.000	-.09757	-.05725	-.00393	.09328
-2.000	-.09311	-.05706	-.00356	.08368
-1.000	-.08987	-.05696	-.00302	.07875
.000	-.08723	-.05720	-.00228	.07196
1.000	-.08420	-.05677	-.00177	.06497
2.000	-.08240	-.05665	-.00122	.05834
3.000	-.08125	-.05636	-.00099	.05164
4.000	-.08065	-.05575	-.00023	.04572
5.000	-.08128	-.05553	.00038	.03899
6.000	-.08269	-.05506	.00072	.03292
7.000	-.08335	-.05482	.00109	.02644
8.000	-.08332	-.05325	.00066	.02035
9.000	-.08362	-.05101	.00010	.01473
10.000	-.08446	-.04827	-.00103	.00650
GRADIENT	.00261	.00024	.00050	-.00713
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AEDC VA-422(1A-57), CRD/ET W/BOTH 888

(BTLO76) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 SQ.FT. XPRP = 1187.0000 IN. 18
 LRP = 1290.3000 IN. YPRP = .0000 IN. 18
 SRP = 1290.3000 IN. ZPRP = 400.0000 IN. 25
 SCALE = .0100

PARAMETRIC DATA

L-808 = 2.000 R-808 = 3.000
 SRP-08 = 2.300 RV/L = 1.780
 PT-JET = 1900.000 BET/ = .000

RUN NO. 43/ 0 RV/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MAOI	ALPHA	BETA	ON	CLH	CY	CM	PCD	MPL
4.500	-10.000	-.32703	-.98631	-.04819	.59829	.02936	1907.30000	.93332
4.500	-9.000	-.32730	-.98194	-.04857	.59798	.02973	1907.60001	.93339
4.500	-8.000	-.32324	-.97829	-.04866	.59768	.03001	1907.80000	.93504
4.500	-7.000	-.32291	-.97336	-.04839	.59735	.03000	1909.00000	.93254
4.500	-6.000	-.31517	-.96934	-.04824	.59679	.03006	1909.39999	.93344
4.500	-5.000	-.30974	-.96449	-.04777	.59629	.02986	1909.30000	.93137
4.500	-4.000	-.30380	-.96018	-.04710	.59544	.02973	1908.69999	.93191
4.500	-3.000	-.29987	-.95579	-.04688	.59572	.02945	1908.80000	.93231
4.500	-2.000	-.29343	-.94954	-.04646	.59673	.02939	1909.00000	.93374
4.500	-1.000	-.28815	-.94312	-.04640	.59909	.02968	1908.80000	.93231
4.500	.000	-.28023	-.93632	-.04634	.56220	.02711	1908.70000	.93229
4.500	1.000	-.26749	-.93061	-.04617	.56862	.02513	1908.60001	.93393
4.500	2.000	-.25888	-.92640	-.04544	.57134	.02319	1908.80000	.93345
4.500	3.000	-.25010	-.92375	-.04408	.57376	.02151	1908.80000	.93264
4.500	4.000	-.24357	-.92089	-.04264	.57982	.02004	1908.70000	.93066
4.500	5.000	-.24253	-.91769	-.04110	.58408	.01844	1908.69999	.93262
4.500	6.000	-.24343	-.91407	-.03958	.58871	.01671	1909.00000	.93315
4.500	7.000	-.24458	-.91089	-.03819	.59324	.01517	1908.69999	.93322
4.500	8.000	-.24618	-.90744	-.03646	.59693	.01385	1908.60001	.93303
4.500	9.000	-.24811	-.90397	-.03442	.59935	.01310	1908.50000	.93318
4.500	10.000	-.25089	-.90041	-.03223	.60170	.01289	1908.70000	.93260
GRADIENT		.00753	.00496	.00033	.00303	-.00123	-.03091	.00003

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AADC VA-422(1A-37), CRG/ET W/BOTH SRS

(871077) (16 APR 74)

REFERENCE DATA

SRP = 2000.0000 82. FT. XMRP = 1107.0000 IN. 18
LREF = 1250.3000 IN. YMRP = .0000 IN. 15
CRP = 1250.3000 IN. ZMRP = 400.0000 IN. 25
SCALE = .0100

PARAMETRIC DATA

L-SRS = 2.000 R-SRS = 3.000
SRBPCB = 2.300 RW/L = 1.700
PT-JET = 1500.000 ALPHA = .000

RUN NO. 42/ 0 RW/L = 1.86 GRADIENT INTERVAL = -.5.00/ 5.00

MAON	BETA	ALPHA	ON	CLM	CV	CYN	PCD	MTL
4.500	-10.000	-.12793	-.92281	-.04415	.61903	.03228	1497.00001	.92892
4.500	-9.000	-.12238	-.92137	-.04507	.61096	.03201	1497.00001	.92810
4.500	-8.000	-.11793	-.92061	-.04603	.60308	.03191	1496.00000	.92707
4.500	-7.000	-.11273	-.92070	-.04659	.59620	.03153	1496.89999	.92634
4.500	-6.000	-.10974	-.92269	-.04640	.59107	.03048	1499.10001	.92635
4.500	-5.000	-.10517	-.92356	-.04604	.58540	.02932	1499.30000	.92630
4.500	-4.000	-.09752	-.92780	-.04608	.57933	.02869	1499.30000	.92715
4.500	-3.000	-.08989	-.92893	-.04621	.57249	.02869	1496.00001	.92409
4.500	-2.000	-.08032	-.93124	-.04635	.56598	.02863	1497.00001	.92391
4.500	-1.000	-.07437	-.93322	-.04625	.56006	.02846	1497.30000	.92371
4.500	.000	-.06950	-.93585	-.04570	.55480	.02814	1497.30000	.92352
4.500	1.000	-.06798	-.93829	-.04544	.55061	.02740	1496.10001	.92359
4.500	2.000	-.06914	-.94071	-.04539	.54654	.02661	1497.00001	.92344
4.500	3.000	-.07091	-.94238	-.04541	.54384	.02570	1497.39999	.92329
4.500	4.000	-.06945	-.94367	-.04549	.54024	.02460	1497.10001	.92374
4.500	5.000	-.06325	-.94502	-.04539	.53799	.02317	1497.00000	.92356
4.500	6.000	-.06237	-.94678	-.04525	.53717	.02109	1497.10001	.92336
4.500	7.000	-.05693	-.94795	-.04520	.53727	.01893	1496.10001	.92731
4.500	8.000	-.05601	-.94822	-.04502	.53707	.01677	1496.10001	.92531
4.500	9.000	-.05536	-.94869	-.04492	.53694	.01481	1497.30000	.92806
4.500	10.000	-.05510	-.94905	-.04478	.53527	.01324	1497.00000	.92636
4.500	GRADIENT	.00361	-.07736	.00010	-.00481	-.00056	-.21091	.00003

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(871076) (18 APR 74)

AEDC VA-422(1A-97), ORB/ET W/BOTH SRB

REFERENCE DATA

SRB = 2880.0000 LB. FT. YARP = 1167.0000 IN. X8
 LWRP = 1250.3000 IN. YARP = .0000 IN. Y5
 SRB = 1250.3000 IN. ZARP = 400.0000 L.. Z5
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
 SRBPOS = 3.200 RW/L = 1.760
 PT-JET = .000 BETA = .000

RUN NO. 57/ 0 RW/L = 1.87 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	ON	QJA	CY	CYN	PCJ	MFL
4.500	-10.000	.00068	-.10405	-.00871	.03797	.01192	-.94768	.00000
4.500	-9.000	.00068	-.09424	-.00806	.03751	.01142	-.99480	.00000
4.500	-8.000	.00040	-.08429	-.00786	.03681	.01085	-.99120	.00000
4.500	-7.000	.00035	-.07449	-.00747	.03575	.00970	-.99311	.00000
4.500	-6.000	-.00006	-.06491	-.00734	.03557	.00867	-1.00690	.00000
4.500	-5.000	-.00049	-.05674	-.00690	.03600	.00769	-.98746	.00000
4.500	-4.000	-.00058	-.04880	-.00638	.03545	.00734	-1.00400	.00000
4.500	-3.000	-.00080	-.04190	-.00593	.03459	.00718	-1.00850	.00000
4.500	-2.000	-.00060	-.03501	-.00525	.03382	.00718	-.98887	.00000
4.500	-1.000	-.00043	-.02883	-.00441	.03343	.00717	-1.02120	.00000
4.500	.000	-.00074	-.02260	-.00380	.03393	.00702	-.99341	.00000
4.500	1.000	-.00092	-.01653	-.00331	.03443	.00677	-1.00190	.00000
4.500	2.000	-.00128	-.01168	-.00223	.03422	.00692	-1.01960	.00000
4.500	3.000	-.00173	-.00732	-.00125	.03471	.00675	-1.01080	.00000
4.500	4.000	-.00199	-.00332	-.00027	.03616	.00626	-1.01080	.00000
4.500	5.000	-.00180	.00071	.00044	.03610	.00543	-1.01080	.00000
4.500	6.000	-.00069	.00543	.00119	.04030	.00461	-1.01080	.00000
4.500	7.000	.00219	.01042	.00192	.04350	.00377	-1.01080	.00000
4.500	8.000	.00219	.01624	.00249	.04556	.00341	-1.01080	.00000
4.500	9.000	.00231	.02231	.00295	.04782	.00293	-1.00590	.00000
4.500	10.000	.00236	.02897	.00342	.04962	.00234	-1.01080	.00000
4.500	GRADIENT	-.00016	.00573	.00074	.00014	-.00016	-.00176	.00000

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AEDC VA-482(11A-37), CRB/ET W/BOTH SRS

(157.079) (18 APR 74)

REFERENCE DATA

SREF = 2880.0000 34. FT. XREF = 1167.0000 IN. XS
LREF = 1290.3000 4IN. YREF = .0000 IN. YS
SREF = 1290.3000 IN. ZREF = 400.07 30 IN. ZS
SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
SRBPOB = 3.200 RV/L = 1.780
PT-JET = .000 ALPHA = .000

RUN NO. 38/ C RV/L = 1.86 GRADIENT INTERVAL = -3.00/ 3.00

MAOH	BETA	ALPHA	ON	QJN	CY	CYN	PCL	PTL
4.500	-10.000	-.13618	-.01824	-.00700	.07998	.02022	-1.01080	.00000
4.500	-9.000	-.12996	-.02126	-.00867	.07802	.01889	-1.01940	.00000
4.500	-8.000	-.12346	-.02360	-.00824	.07156	.01736	-1.07900	.00000
4.500	-7.000	-.11706	-.02448	-.00990	.06639	.01632	-1.02900	.00000
4.500	-6.000	-.11075	-.02585	-.00538	.06123	.01503	-1.00440	.00000
4.500	-5.000	-.10653	-.02613	-.00496	.05614	.01367	-1.02700	.00000
4.500	-4.000	-.10164	-.02549	-.00474	.05015	.01228	-1.02370	.00000
4.500	-3.000	-.09691	-.02625	-.00447	.04448	.01108	-1.03300	.00000
4.500	-2.000	-.09302	-.02641	-.00424	.04068	.00974	-1.03770	.00000
4.500	-1.000	-.08830	-.02625	-.00423	.03669	.00830	-1.01090	.00000
4.500	.000	-.08503	-.02790	-.00390	.03276	.00690	-1.01230	.00000
4.500	1.000	-.08305	-.02864	-.00330	.02835	.00562	-1.01700	.00000
4.500	2.000	-.08169	-.02945	-.00290	.02447	.00440	-1.02180	.00000
4.500	3.000	-.08124	-.03136	-.00238	.02082	.00311	-1.01250	.00000
4.500	4.000	-.08257	-.03301	-.00138	.01693	.00203	-1.01090	.00000
4.500	5.000	-.08472	-.03469	-.00070	.01345	.00067	-1.03900	.00000
4.500	6.000	-.08606	-.03638	.00021	.00915	-.00036	-1.01120	.00000
4.500	7.000	-.08750	-.03809	.00093	.00529	-.00172	-1.01090	.00000
4.500	8.000	-.08876	-.03994	.00295	.0018	-.00239	-1.01090	.00000
4.500	9.000	-.09174	-.04139	.00405	-.00370	-.00396	-1.11250	.00000
4.500	10.000	.00247	-.00067	.00441	-.00653	-.00501	-1.09300	.00000
GRADIENT						-.00130	-.00094	.00000

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(STL000) (18 APR 74)

AEDC VA-422(1A-57), ORB/ET W/BOTH SRB

REFERENCE DATA

SRP = 2000.0000 SQ.FT. XMRP = 1167.0000 IN. X6
LREF = 1290.3000 IN. YMRP = .0000 IN. Y5
SPRF = 1290.3000 IN. ZMRP = 400.0000 IN. Z5
SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 2.000
SRB008 = 3.200 RV/L = 1.700
PT-JET = 1900.000 BETA = .000

RUN NO. 60/ D RV/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

WAOH	ALPHA	BETA	ON	QUN	CT	CYN	PC	MTL
4.500	-10.000	.36090	-.93851	-.05966	.56725	.03042	1900.60001	.92798
4.500	-8.000	.36039	-.93400	-.05836	.56717	.02916	1900.60001	.92871
4.500	-6.000	.35406	-.93009	-.05881	.56376	.02792	1900.70000	.92745
4.500	-7.000	.34872	-.92804	-.05512	.56392	.02695	1900.70000	.92421
4.500	-6.000	.34454	-.92275	-.05419	.56143	.02604	1901.50000	.92980
4.500	-5.000	.34353	-.91888	-.05368	.55951	.02620	1901.39999	.92531
4.500	-4.000	.34270	-.91609	-.05309	.55770	.02695	1901.50000	.92565
4.500	-3.000	.34316	-.91399	-.05192	.55560	.02887	1901.60001	.92997
4.500	-2.000	.34490	-.91245	-.05034	.55371	.02703	1902.00000	.92725
4.500	-1.000	.34616	-.91098	-.04889	.55606	.02709	1902.20000	.92736
4.500	.000	.34673	-.91062	-.04661	.55704	.02719	1902.10001	.92445
4.500	1.000	.34466	-.90962	-.04434	.55973	.02703	1902.60001	.92790
4.500	2.000	.34157	-.90767	-.04214	.56112	.02636	1902.39999	.92741
4.500	3.000	.33590	-.90473	-.03989	.56479	.02564	1903.00000	.92701
4.500	4.000	.33263	-.90019	-.03786	.5690	.02420	1903.00000	.92522
4.500	5.000	.33069	-.89472	-.03624	.57354	.02236	1903.20000	.92500
4.500	6.000	.32955	-.88964	-.03451	.57668	.02037	1903.00000	.92699
4.500	7.000	.32746	-.88321	-.03285	.58456	.01838	1903.60001	.93532
4.500	8.000	.32435	-.87989	-.03142	.58971	.01628	1904.10001	.92972
4.500	9.000	.31975	-.87329	-.02979	.59513	.01393	1904.60001	.92742
4.500	10.000	.31462	-.87046	-.02838	.60049	.01162	1904.60001	.92930
	GRADIENT	-.00122	.00203	.00167	.00142	-.00026	.19273	.00001

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AZDC VA-422(1A-57), CRAB/ET W/BOOM 098

(187.0001) (10 APR 74)

REFERENCE DATA

SRP = 2000.0000 20. FT. YARP = 1167.0000 IN. X8
 LRP = 1290.3000 IN. YARP = .0000 IN. Y5
 SRP = 1290.3000 IN. ZARP = 400.0000 IN. Z5
 SCALE = .0100

PARAMETRIC DATA

L-808 = 3.000 R-808 = 2.000
 SRP008 = 3.200 RV/L = 1.780
 PT-JET = 1500.000 ALPHA = .000

RUN NO. 89/ 0 RV/L = 1.86 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	ALPHA	ON	CLM	CY	CYN	POL	MTL
4.500	-10.000	-.09239	-.90131	-.05348	.63936	.04368	1502.70000	.92718
4.500	-8.000	-.08870	-.90362	-.05821	.63334	.04425	1503.20000	.92596
4.500	-6.000	-.08598	-.90526	-.05672	.62744	.04251	1503.20000	.92439
4.500	-7.000	-.08162	-.91119	-.05679	.61950	.04045	1503.00000	.92431
4.500	-6.000	-.07936	-.91196	-.05702	.61116	.03794	1502.00000	.92273
4.500	-5.000	-.07391	-.91212	-.05822	.60334	.03496	1502.00000	.92333
4.500	-4.000	-.07374	-.91124	-.05482	.59331	.03204	1502.70000	.92484
4.500	-3.000	-.07218	-.91091	-.05243	.58379	.03033	1502.30000	.92628
4.500	-2.000	-.07150	-.91173	-.04967	.57467	.02834	1502.20000	.92443
4.500	-1.000	-.07063	-.91269	-.04839	.56573	.02726	1502.39996	.92514
4.500	.000	-.06837	-.91349	-.04812	.55663	.02732	1502.20000	.92561
4.500	1.000	-.06334	-.91332	-.04836	.54736	.02768	1502.00000	.92663
4.500	2.000	-.06336	-.91181	-.04849	.53926	.02787	1501.90000	.92519
4.500	3.000	-.06261	-.91179	-.04811	.52962	.02742	1501.80000	.92300
4.500	4.000	-.06160	-.91325	-.04749	.52221	.02643	1502.10001	.92421
4.500	5.000	-.06163	-.91377	-.04689	.51673	.02504	1501.89999	.92455
4.500	6.000	-.06073	-.91678	-.04649	.51324	.02263	1501.90000	.92633
4.500	7.000	-.05754	-.92156	-.04353	.50996	.02036	1501.50000	.92347
4.500	8.000	-.05637	-.92479	-.04483	.50639	.01836	1501.30000	.92533
4.500	9.000	-.05748	-.92763	-.04364	.50188	.01733	1501.00000	.92673
4.500	10.000	-.06001	-.93031	-.04236	.49749	.01644	1501.30000	.92431
GRADIENT		.00153	-.00027	.00082	-.00894	-.00074	-.09536	-.00012

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AIRC VA-422(1A-37), CRUIET W/BOTH SRB (MNO OFF)

(187L884) (18 APR 74)

REFERENCE DATA

SRP = 2880.0000 IN. FT. YARP = 1167.0000 IN. X8
 LARP = 1250.3000 IN. YARP = .0000 IN. Y8
 SRP = 1250.3000 IN. ZARP = 400.0000 IN. Z8
 SCALE = .0100

PARAMETRIC DATA

L-SRB = 3.000 R-SRB = 3.000
 SRP-OS = 3.300 RV/L = .000
 PT-JET = 150.000 BETA = .000

RUN NO. 44/ 0 RV/L = 2.22 GRADIENT INTERVAL = -9.00/ 9.00

MAON	ALPHA	BETA	ON	QX	CT	CYN	PO	MTL
4.510	-10.000	.00111	-.8961	-.04370	.48944	.01851	1500.30000	.93063
4.510	-9.000	.00163	-.83454	-.04357	.48952	.01863	1500.30000	.93130
4.510	-8.000	.00212	-.83015	-.04269	.48752	.01872	1499.80000	.93099
4.510	-7.000	.00196	-.82533	-.04179	.48661	.01851	1499.60001	.93165
4.510	-6.000	.00132	-.82034	-.04093	.48502	.01852	1499.50000	.93157
4.510	-5.000	.00045	-.81565	-.04015	.48378	.01867	1499.30000	.93252
4.510	-4.000	.00017	-.81022	-.03972	.48356	.01890	1499.30000	.93120
4.510	-3.000	.00104	-.80460	-.03945	.48395	.01923	1499.30000	.93220
4.510	-2.000	.00136	-.79756	-.03966	.48460	.01901	1499.30000	.93099
4.510	-1.000	.00396	-.78976	-.04035	.48741	.01773	1499.20000	.93199
4.510	.000	.00379	-.78319	-.04117	.49174	.01577	1499.60001	.93212
4.510	1.000	.00219	-.78022	-.04077	.49694	.01384	1499.39999	.93346
4.510	2.000	.00110	-.77888	-.03950	.50193	.01221	1500.39999	.93393
4.510	3.000	.00260	-.77614	-.03803	.50697	.01028	1501.39999	.93223
4.510	4.000	-.00045	-.77344	-.03630	.51229	.00838	1501.10001	.93253
4.510	5.000	-.00396	-.77131	-.03405	.51616	.00691	1501.50000	.93006
4.510	6.000	-.00209	-.76944	-.03137	.51875	.00584	1500.39999	.93153
4.510	7.000	-.00225	-.76723	-.02894	.52035	.00568	1499.69999	.93070
4.510	8.000	-.00241	-.76576	-.02548	.52034	.00642	1500.20000	.93296
4.510	9.000	-.00299	-.76299	-.02458	.51895	.00620	1500.50000	.93682
4.510	10.000	-.00296	-.75916	-.02333	.51535	.01069	1503.30000	.93741
	GRADIENT	-.00044	.00455	.00044	.00355	-.00132	.24453	.00001

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AEDC VA-422(1A-57), CRB/ET W/BOTH SRB (P/P MODE)

(STL088) (15 APR 74)

REFERENCE DATA

SRF = 2880.0000 50.FT. XMRP = 1167.0000 IN. X5
LREF = 1290.3000 IN. YMRP = .0000 IN. Y5
PRF = 1290.3000 IN. ZMRP = 400.0000 IN. Z5
SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
SRFCS = 1.100 RV/L = 1.760
PT-JET = 1900.000 BETA = .000

RUN NO. 11/ 0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	QJ	CY	CIN	PCL	MTL
4.500	-10.720	-.00065	-.93480	-.04036	.50387	.01474	1518.99999	.91472
4.500	-5.696	.00669	-.91560	-.03728	.50688	.01522	1521.10001	.91633
4.500	-.537	.01912	-.95292	-.03372	.50287	.01302	1521.00000	.92446
4.500	4.553	.00370	-.87287	-.03288	.50336	.01233	1520.10001	.91809
4.500	9.734	.02493	-.84998	-.02921	.50776	.01264	1520.20000	.92096
GRADIENT		-.00264	.00394	.00017	.00010	-.00014	-.17681	-.00125

REFERENCE DATA

SRF = 2880.0000 50.FT. XMRP = 1167.0000 IN. X5
LREF = 1290.3000 IN. YMRP = .0000 IN. Y5
PRF = 1290.3000 IN. ZMRP = 400.0000 IN. Z5
SCALE = .0100

PARAMETRIC DATA

L-SRB = 1.000 R-SRB = 1.000
SRFCS = 1.100 RV/L = 1.760
PT-JET = 1900.000 ALPHA = .000

RUN NO. 12/ 0 RV/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	ON	QJ	CY	CIN	PCL	MTL
4.500	-10.014	-.00322	-.89159	-.02837	.51346	.01194	1524.20000	.90869
4.500	-5.051	.1492	-.89739	-.03186	.50920	.01201	1523.10001	.91089
4.500	-.008	-.59009	-.90201	-.03312	.50599	.01377	1523.70000	.91415
4.500	5.066	-.49655	-.90801	-.03341	.49413	.01690	1522.20000	.92942
4.500	10.112	-.46332	-.92356	-.03103	.47455	.01640	1522.20000	.92933
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000



AEDC VA-422(1A-57); ONE/ET W/BOTH SRS (P/P MODS)

(STL0009) (18 APR 74)

REFERENCE DATA

9817 = 2490,0000 98,PT. 30RP = 1167,0000 IN. 2S
 1987 = 1250,3000 IN. 14RP = .0000 IN. 1S
 5987 = 1250,3000 IN. 20RP = 400,0000 IN. 2S
 SCALE = .0100

PARAMETRIC DATA

L-SRB	=	3,000	R-SRB	=	3,000
SRBPOS	=	3,300	RM/L	=	1,700
PT-JET	=	150,000	BETA	=	.000

RUN NO. 48/0 $\overline{R}^2 = 1.84$ GRADIENT INTERVAL = -5.00/ 5.00

WAOH	ALPHA	BETA	ON	QJM	CY	CTM	PCL	MTL
4.500	-10.232	-.00266	-.56670	-.04771	.96062	.01620	1500.39999	.92124
4.500	-5.193	-.00307	-.97267	-.04363	.57940	.01760	1572.60001	.92367
4.500	-1.126	-.00236	-.03773	-.04666	.95272	.01633	1504.80000	.92454
4.500	4.869	-.00377	-.92079	-.04029	.60721	.00693	1504.70000	.92483
4.500	9.910	-.01121	-.90036	-.02647	.61763	.00451	1500.20000	.91596
GRADIENT		-.01163	-.00339	.00106	-.00192	-.00192	-.02003	.00006

REFERENCE DATA

9827 = 2400.0000 SQ. FT. 3469 = 1167.0000 IN. XS
 1467 = 1250.3000 IN. 3469 = .0000 IN. YS
 9827 = 1250.3000 IN. 3469 = 400.6300 IN. ZS
 SCALE = .0100

PARAMETRIC DATA

L-500	=	3,000	R-500	=	3,000
SREPOS	=	3,300	ROVL	=	1,700
PT-JET	=	1500,000	ALPHA	=	.300

RUN NO. 49/ 0 REV. = 1.04 GRADIENT INTERVAL = -3.00V 3.00

WAGH	BETA	ALPHA	ON	QJM	CY	CYN	PCL	MTL
4.500	-10.006	-1.7062	-9.5062	-0.0403	.63569	.01817	1497.00000	.92111
4.500	-5.006	-1.5175	-9.9225	-0.0408	.61316	.01794	1497.69999	.91979
4.500	5.006	-1.4510	-9.5340	-0.0404	.57514	.01798	1494.80000	.91479
4.500	5.013	-1.5003	-9.4447	-0.0430	.54776	.01693	1500.30000	.90360
4.500	10.094	-1.5984	-9.4974	-0.0409	.92312	.01649	1500.60000	.92257
gradient		.00000	.00000		.00000	.00000	.00000	.00000